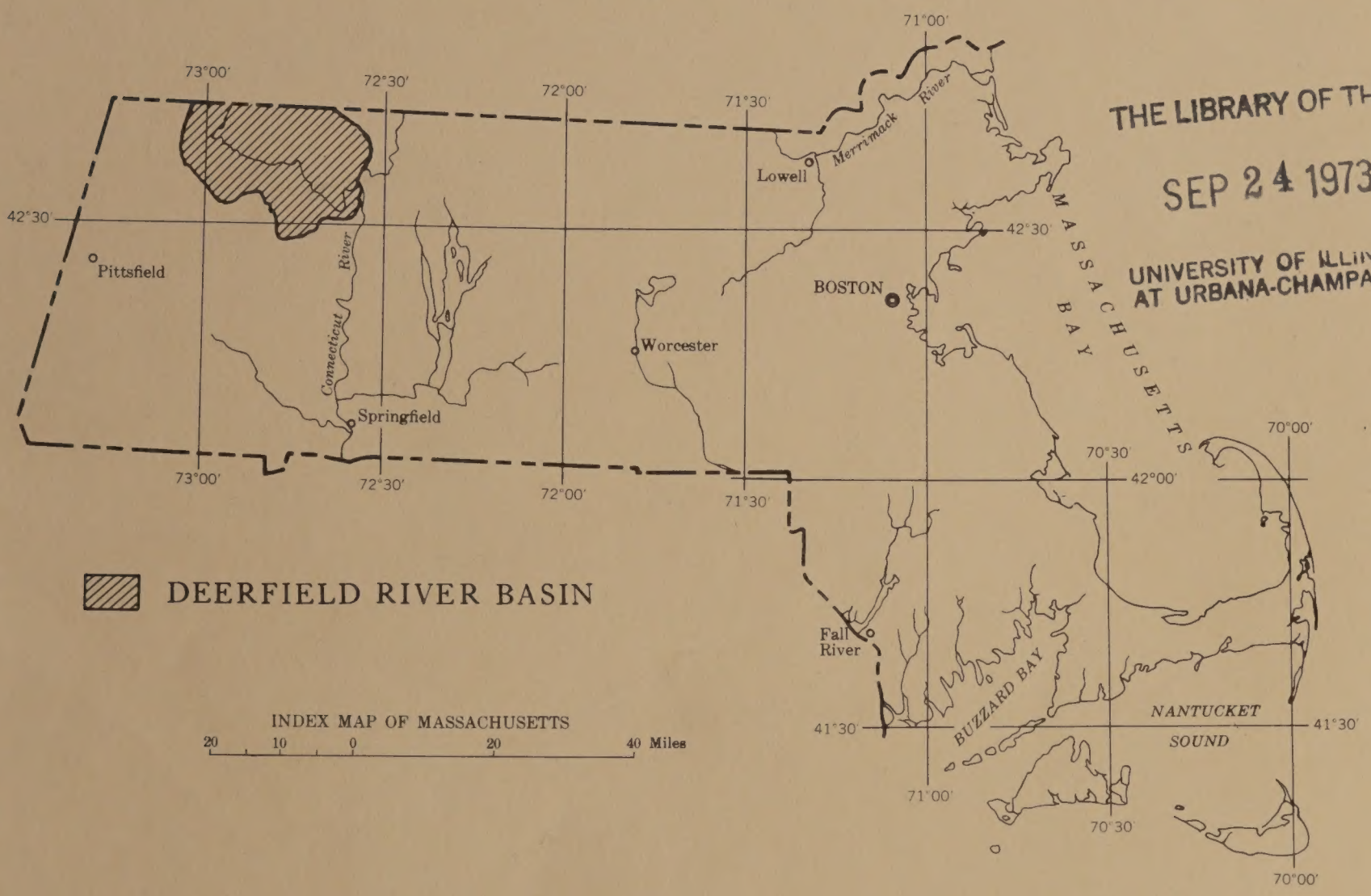
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MASSACHUSETTS HYDROLOGIC-DATA REPORT No. 13

HYDROLOGIC DATA OF THE DEERFIELD RIVER BASIN, MASSACHUSETTS

BY
BRUCE P. HANSEN, FREDERICK B. GAY, AND L. G. TOLER



PREPARED IN COOPERATION WITH
THE COMMONWEALTH OF MASSACHUSETTS
WATER RESOURCES COMMISSION

1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

HYDROLOGIC DATA OF THE DEERFIELD RIVER BASIN, MASSACHUSETTS

By

Bruce P. Hansen, Frederick B. Gay, and L. G. Toler

Massachusetts Hydrologic-Data Report No. 13

Records of surface-water discharges, selected wells and borings, seismic surveys, and chemical analyses of water in the Deerfield River basin, Massachusetts

Prepared in cooperation with

THE COMMONWEALTH OF MASSACHUSETTS, WATER RESOURCES COMMISSION

Boston, Massachusetts

1973

OPEN-FILE REPORT

Geology

CONTENTS

ILLUSTRATIONS

Plate is in pocket

TABLES

HYDROLOGIC DATA OF THE DEERFIELD RIVER BASIN, MASSACHUSETTS

By

Bruce P. Hansen, Frederick B. Gay, and L. G. Toler

INTRODUCTION

The Deerfield River, a tributary to the Connecticut River, is located in northwestern Massachusetts and south-central Vermont. It has a drainage basin area of 664 square miles, of which 348 square miles lies within Massachusetts. This report covers only that part within Massachusetts and includes all, or parts of, the towns of Ashfield, Bernardston, Buckland, Charlemont, Colrain, Conway, Deerfield, Florida, Greenfield, Hawley, Heath, Leyden, Monroe, Plainfield, Rowe, Savoy, and Shelburne.

Hydrologic data collected during an investigation of the water resources of the Deerfield River basin are presented in tabular form. This investigation was conducted by the U.S. Geological Survey in cooperation with the Massachusetts Water Resources Commission. The data are released in order to make available to the public basic hydrologic and related information that will facilitate the planning of water-resources development and will complement an interpretative report of the area to be published at a later date.

Data presented in this report include selected information on wells and test borings, seismic surveys, streamflow records, chemical analyses of surface and ground water and of rainfall, and suspended-sediment concentrations of surface water (see Plate 1 for locations of all hydrologic-data collection sites).

The authors wish to acknowledge the public officials, consulting firms, industrial concerns, well drillers, and individual homeowners who have given their time and information to this study.

DEFINITION OF TERMS

Definition of terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows:

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by one milligram per liter of platinum in the form of the chloroplatinate ion.

The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved-solids content.

Cubic feet per second per square mile is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second, 448.8 gallons per minute, or 646,317 gallons per day.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height is the water-surface elevation referred to some arbitrary gage datum.

Gaging station is a particular site on a stream where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (µg/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in the table below. Concentration of suspended sediment expressed in milligrams per liter is based on the weight of sediment in a liter of water-sediment mixture.

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*.....	0.11119	Lead (Pb^{+2})*.....	0.00965
Bicarbonate (HCO_3^{-1}).....	.01639	Lithium (Li^{+1})*.....	.14411
Calcium (Ca^{+2}).....	.04990	Magnesium (Mg^{+2}).....	.08226
Carbonate (CO_3^{-2}).....	.03333	Manganese (Mn^{+2})*.....	.03640
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1}).....	.01613
Chromium (Cr^{+6})*.....	.11539	Potassium (K^{+1}).....	.02557
Cobalt (Co^{+2})*.....	.03394	Sodium (Na^{+1}).....	.04350
Copper (Cu^{+2})*.....	.03148	Strontium (Sr^{+2})*.....	.02283
Fluoride (F^{-1}).....	.05264	Sulfate (SO_4^{-2}).....	.02082
Iron (Fe^{+3})*.....	.05372	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Runoff in inches shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

NUMBERING AND LOCATION OF HYDROLOGIC-DATA COLLECTION SITES

Surface-Water Stations

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. All stations are numbered consecutively in downstream order in this report. If a station has been assigned a number for the U.S. Geological Survey national surface-water data network, the network number is shown in parentheses.

Ground-Water Sites

The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 14 digits and 1 letter. The first 6 digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last digit is a sequential number for wells within a one-second grid. The system provides the geographic location of the well and a unique number for each well.

A local numbering system for wells and borings is also used in this report. The first two letters of the local well or boring number are town code letters, e.g. GR for Greenfield; the third letter indicates whether the hole is a well (W), auger boring (A), bridge boring (B), or roadway boring (R); and the number indicates the order in which the well or boring

was inventoried within the town. A separate series of numbers beginning with "1" is used within each town. In tables, the complete local number is used; however, on the map (Plate 1), only the number appears beside well locations, or the number plus "A", "B" or "R" for borings within the designating town boundaries.

COLLECTION AND EXAMINATION OF HYDROLOGIC DATA

Streamflow

The base data collected at continuous-record gaging stations consist of records of stage and measurements of discharge. Records of stage are obtained from a graphic water-stage recorder that gives a continuous record of the fluctuations or from a digital recorder that punches tape at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.)

More detailed information than that published for the gaging stations, such as discharge measurements, gage-height record, and rating tables, is on file in the district office. The long-term gaging-station records (through 1967) have been analyzed to give several statistical summaries, including (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

Measurements of streamflow made at low-flow discharge stations are made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream.

Solutes

The methods of collecting and analyzing the water samples for determining the kinds and concentrations of solutes are described by Brown and others (1970). One sample can define adequately the water quality at given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Ground-water quality does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Solids are dissolved from the atmosphere by precipitation. The amount and type of solids may be affected by the source of airborne particles, the wind direction and velocity, and the rainfall intensity and duration. Samples of rainfall were collected monthly during selected periods.

Temperature

Most large streams have a small diurnal temperature change, while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. To convert temperature data shown in degrees Celsius (centigrade, °C) to degrees Fahrenheit (°F), see following table:

Temperature conversion table,
degrees Celsius (°C) to degrees Fahrenheit (°F)
°F = 9/5 (°C) +32 or °C = 5/9 (°F -32)

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

Sediment

Suspended-sediment samples were collected periodically, particularly during periods of storm runoff when most of the suspended-sediment load is transported. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

SELECTED REFERENCES

Brown, Eugene, Skougstad, M.W., and Fishman, M.J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Carter, R.W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. A6, 13 p.

Colby, B.R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Corbett, D.M., and others, 1943, reprinted 1957, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Hazen, Allen, 1892, A new color standard for natural waters: Am. Chem. Jour., v. 12, p. 427-428.

Hem, J.D., 1970, Study and interpretation of the chemical characteristics of natural water, 2d ed.: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lane, E.W., and others, 1947, Report of the Subcommittee on Sediment Terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W.B., and Iseri, K.T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Rainwater, F.H., and Thatcher, L.L., 1960, Methods for collection and analysis of water samples: U.S. Geol. Survey Water-Supply Paper 1454, 301 p.

U.S. Geological Survey, 1954, Compilation of records of surface waters of the United States through September 1950, pt. 1-A, North Atlantic slope basins, Maine to Connecticut: U.S. Geol. Survey Water-Supply Paper 1301 380 p.

_____1964, Compilation of records of surface waters of the United States, October 1950 to September 1960, pt. 1-A, North Atlantic slope basins, Maine to Connecticut: U.S. Geol. Survey Water-Supply Paper 1721, 317 p.

_____1966-70, Water resources data for Massachusetts, New Hampshire, Rhode Island, Vermont, 1965-69: Boston, Mass., Water Resources Div., issued annually.

_____1969, Surface water supply of the United States 1961-65, pt. 1, v. 1, North Atlantic slope basins, Maine to Connecticut: U.S. Geol. Survey Water-Supply Paper 1901, 1027 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams: St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn., published in separate volumes as follows:

_____1963, Determinations of fluvial sediment discharge: Rept. 14, 151 p.

_____1963, A summary of the work of the Federal Inter-Agency Sedimentation Project: Rept. S.

_____1966, Instruments and reports for fluvial sediment investigations, Federal Inter-Agency Sedimentation Project (catalog of Inter-Agency Sedimentation Project), 67 p.

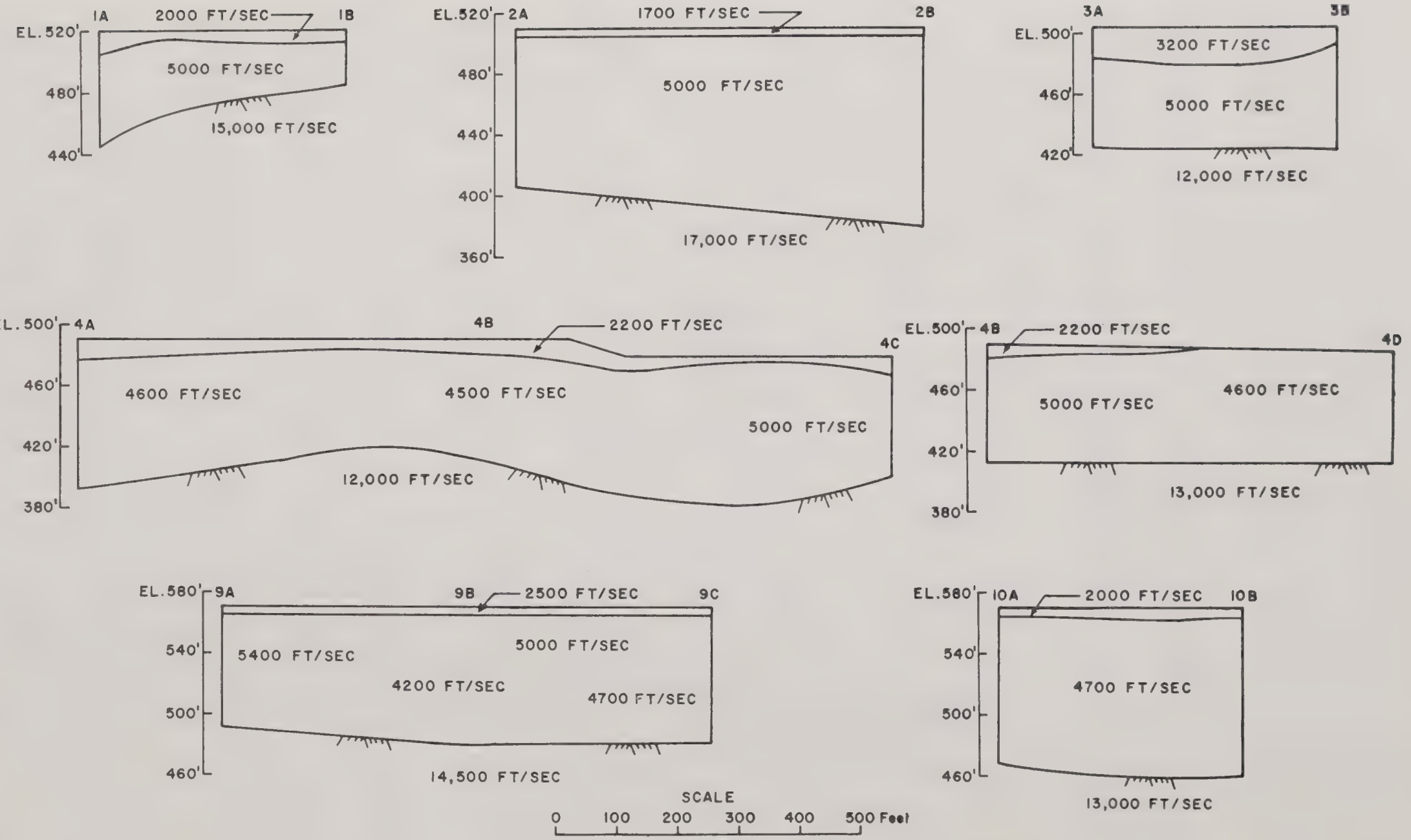


Figure 1.--Profile sections of selected seismic surveys

These profiles are the result of a seismic survey completed in July 1967 by Weston Geophysical Engineers, Inc., for the U.S. Geological Survey, Water Resources Division, at Buckland-Charlemont, Massachusetts. Seismic velocities are used to estimate overburden thickness at designated locations selected for the study of ground-water potential.

Profile sections indicate thick overburden deposits at all sites. Overburden velocities of 5000 ft/sec indicate coarse material; velocities appearing on profile sections below 4800 ft/sec usually indicate fine-grained material such as silt. However, the seismic velocities measured are an average of the whole overburden column; hence, coarser material could occur where lower velocities are shown, and finer material could occur where 5000 ft/sec velocities are shown. It should be noted that slower velocities shown under the 5400 ft/sec and 5000 ft/sec velocities, such as the 9A-9C profile, do not indicate lower-velocity material at depth. These velocities are representative of lateral differences and were offset for drafting convenience. The higher velocities at depth are indicative of bedrock. The locations of seismic lines are shown on the map (Plate 1).

Table 1.--Surface-water stations at which data are collected

Type of data--Discharge: continuous record (D), low-flow (LF);
Water-quality: chemical (C), suspended sediment (S)

Map reference no. (Plate 1)	Station name and (number)	Location	Drainage area (sq mi)	Type of data collected
1	Deerfield River diversion canal at Monroe Bridge, Mass.	Lat 42°43'15", long 72°57'05", Franklin County, 100 ft below opening on River Rd., 0.5 mile west of Monroe Bridge.	--	C
2	Dunbar Brook near Monroe Bridge, Mass. (01168130)	Lat 42°43'11", long 72°59'34", Franklin County, 20 ft above culvert on South Rd., 2.6 miles west of Monroe Bridge.	7.01	C, LF
3	Deerfield River near Hoosac Tunnel, Mass.	Lat 42°41'18", long 72°57'42", Berkshire County, 300 ft above power plant and 2.1 miles northeast of Hoosac Tunnel.	--	C
4	Fife Brook near Hoosac Tunnel, Mass. (01168150)	Lat 42°41'02", long 72°58'41", Berkshire County, at culvert on River Rd., 100 ft above mouth, and 1.2 miles northeast of Hoosac Tunnel.	2.11	C, LF
5	Deerfield River at Zoar, Mass.	Lat 42°39'04", long 72°57'05", Franklin County, 0.2 mile below Florida Bridge on Zoar Rd., 0.8 mile above Pelham Brook, and 1 mile west of Zoar.	--	C
6	Potter Brook near Rowe, Mass. (01168170)	Lat 42°42'54", long 72°53'05", Franklin County, at culvert on Leshures Rd., 1.7 miles northeast of Rowe.	1.57	C, LF
7	Pelham Brook at Rowe, Mass. (01168200)	Lat 42°41'23", long 72°54'19", Franklin County, 75 ft from Zoar Rd., 300 ft below Shippee Brook, and 0.3 mile southwest of Rowe.	7.19	C, LF
8	Pelham Brook at Zoar, Mass. (01168230)	Lat 42°39'24", long 72°56'09", Franklin County, at culvert on Rowe Rd., 900 ft above mouth, and 0.3 mile northwest of Zoar.	13.5	C, LF
9	Cold River at Florida, Mass. (01168250)	Lat 42°39'58", long 73°01'52", Berkshire County, at culvert on South County Rd., 1 mile west of Florida.	6.48	C, LF
10	Black Brook near Drury, Mass. (01168280)	Lat 42°37'57", long 72°58'29", Berkshire County, 100 ft above mouth, 1.8 miles southeast of Drury.	3.82	C, LF
11	Cold River near Zoar, Mass. (01168300)	Lat 42°38'12", long 72°56'10", Franklin County, at bridge 150 ft east of State Highway 2, 0.9 mile above mouth, and 1.1 miles south of Zoar.	29.6	C, LF
12	Chickley River at West Hawley, Mass. (01168340)	Lat 42°34'39", long 72°56'50", Franklin County, at culvert on State Highway 8A, at West Hawley.	8.71	C, LF
13	King Brook at West Hawley, Mass. (01168350)	Lat 42°34'40", long 72°56'48", Franklin County, 200 ft above mouth, at West Hawley.	5.22	C, LF
14	Mill Brook (tributary to Chickley River) near West Hawley, Mass. (01168370)	Lat 42°36'18", long 72°54'45", Franklin County, at culvert on Middle Rd., 200 ft above mouth, and 2.6 miles northeast of West Hawley.	6.28	C, LF
15	Chickley River near Charlemont, Mass. (01168400)	Lat 42°37'28", long 72°54'27", Franklin County, at bridge on Chickley Rd., 0.5 mile above mouth, and 1.9 miles west of Charlemont.	27.1	C, LF
16	Legate Hill Brook near Charlemont, Mass. (01168430)	Lat 42°38'06", long 72°53'50", Franklin County, at culvert on Legate Hill Rd., 1.4 miles northwest of Charlemont.	2.62	C, LF
17	Deerfield River below Legate Hill Brook, at Charlemont, Mass.	Lat 42°37'33", long 72°53'00", Franklin County, at bridge on State Highway 8A, 100 ft below Legate Hill Brook, and 0.7 mile west of Charlemont.	--	C
18	Bozrah Brook at Charlemont, Mass. (01168450)	Lat 42°37'28", long 72°52'52", Franklin County, at culvert on West Hawley Rd., 200 ft above mouth, and 0.6 mile southwest of Charlemont.	3.84	C, LF
19	Mill Brook (tributary to Deerfield River) near Charlemont, Mass. (01168470)	Lat 42°39'08", long 72°51'40", Franklin County, at culvert on State Highway 8A, 1.7 miles north of Charlemont.	7.78	C, LF
20	Maxwell Brook near Charlemont, Mass. (01168480)	Lat 42°38'49", long 72°52'00", Franklin County, at bridge on State Highway 8A, 800 ft above mouth, and 1.3 miles north of Charlemont.	2.94	C, LF

Table 1.--Surface-water stations at which data are collected--Continued

Map reference no. (Plate 1)	Station name and (number)	Location	Drainage area (sq mi)	Type of data collected
21	Deerfield River at Charlemont, Mass. (01168500)	Lat 42°37'33", long 72°51'20", Franklin County, on left bank 1 mile downstream from Charlemont and 2.5 miles downstream from Chickley River.	362	C, D, S
22	Deerfield River near Charlemont, Mass.	Lat 42°37'07", long 72°49'18", Franklin County, 0.6 mile above Avery Brook, and 2.6 miles east of Charlemont.	--	C
23	Avery Brook near Charlemont, Mass. (01168520)	Lat 42°37'44", long 72°48'49", Franklin County, at culvert on Heath Rd., 2.9 miles east of Charlemont.	3.88	C, LF
24	Clesson Brook near Buckland, Mass. (01168550)	Lat 42°34'04", long 72°48'35", Franklin County, at culvert on Hawley Rd., 1.9 miles southwest of Buckland.	7.48	C, LF
25	Upper Branch Clesson Brook near Buckland, Mass. (01168600)	Lat 42°34'03", long 72°48'08", Franklin County, at bridge on State Highway 112, 250 ft above mouth, and 1.8 miles south of Buckland.	5.77	C, LF
26	Clesson Brook near Shelburne Falls, Mass. (01168650)	Lat 42°36'47", long 72°46'10", Franklin County, at bridge on State Highway 112, 0.5 mile above mouth, and 1.7 miles northwest of Shelburne Falls.	18.2	C, LF
27	Clark Brook near Shelburne Falls, Mass. (01168700)	Lat 42°36'48", long 72°46'05", Franklin County, at culvert on State Highway 112, 0.3 mile above mouth, and 1.7 miles northwest of Shelburne Falls.	2.78	C, LF
28	East Branch North River below Vermont State line, near Colrain, Mass.	Lat 42°43'42", long 72°42'50", Franklin County, 100 ft above bridge on State Highway 112, 0.7 mile below Vermont State line, and 3.9 miles north of Colrain.	--	C
29	East Branch North River near Colrain, Mass.	Lat 42°42'43", long 72°42'07", Franklin County, 100 ft above bridge on private road just off State Highway 112, 2.0 miles below Vermont State line, and 2.7 miles north of Colrain.	--	C
30	East Branch North River at Colrain, Mass.	Lat 42°40'54", long 72°41'20", Franklin County, 0.8 mile above bridge on State Highway 112 and 0.8 mile northeast of Colrain.	--	C
31	East Branch North River at Lyonsville, Mass.	Lat 42°40'26", long 72°42'52", Franklin County, 0.2 mile above Foundry Brook and 0.2 mile north of Lyonsville.	--	C
32	Foundry Brook at Lyonsville, Mass. (01168800)	Lat 42°40'26", long 72°43'09", Franklin County, at culvert on Adamsville Rd., 500 ft above mouth, and 0.2 mile northwest of Lyonsville.	2.13	C, LF
33	East Branch North River at Griswoldville, Mass.	Lat 42°40'05", long 72°43'16", Franklin County, 0.4 mile below Foundry Brook, 0.4 mile above mouth, and 0.9 mile north of Griswoldville.	--	C
34	West Branch Brook at North Heath, Mass. (01168850)	Lat 42°42'17", long 72°50'09", Franklin County, at bridge on State Highway 8A, 0.5 mile west of North Heath.	6.90	C, LF
35	Sanders Brook near North Heath, Mass. (01168900)	Lat 42°42'14", long 72°47'00", Franklin County, at culvert on Colrain Rd., 100 ft above mouth, and 2.2 miles east of North Heath.	4.00	C, LF
36	Taylor Brook near Lyonsville, Mass. (01168940)	Lat 42°40'42", long 72°44'31", Franklin County, at bridge on Heath Rd., 1,000 ft above mouth, and 1.4 miles northwest of Lyonsville.	5.20	C, LF
37	West Branch North River at Lyonsville, Mass. (01168950)	Lat 42°40'15", long 72°43'43", Franklin County, at bridge on private road, 50 ft southwest of Adamsville Rd., 0.8 mile above mouth, and 0.6 mile west of Lyonsville.	29.8	C, LF
38	North River at Shattuckville, Mass. (01169000)	Lat 42°38'18", long 72°43'32", Franklin County, on right bank in Shattuckville, 1.2 miles south of Griswoldville and 1.3 miles upstream from mouth.	88.4	C, D, S
39	Deerfield River at Shelburne Falls, Mass.	Lat 42°36'47", long 72°44'14", Franklin County, at bridge on State Highway 2, 0.7 mile north of Shelburne Falls.	--	C
40	Deerfield River near Shelburne, Mass.	Lat 42°34'22", long 72°42'28", Franklin County, just below power plant, 1.5 miles southwest of Shelburne.	--	C

Table 1.--Surface-water stations at which data are collected--Continued

Map reference no. (Plate 1)	Station name and (number)	Location	Drainage area (sq mi)	Type of data collected
41	Bear River near Conway, Mass. (01169600)	Lat 42°32'45", long 72°43'15", Franklin County, at bridge on Shelburne Falls Rd., 2.7 miles northwest of Conway.	10.5	C, LF
42	Dragon Brook at Shelburne, Mass. (01169650)	Lat 42°34'39", long 72°41'06", Franklin County, at culvert on Bardwell Ferry Rd., 0.8 mile south of Shelburne.	3.57	C, LF
43	Creamery Brook at South Ashfield, Mass. (01169700)	Lat 42°30'30", long 72°46'35", Franklin County, at bridge on Williamsburg Rd., 1,200 ft above mouth, and 0.1 mile south of South Ashfield.	3.65	C, LF
44	Poland Brook near Conway, Mass. (01169800)	Lat 42°29'16", long 72°44'47", Franklin County, at bridge on Poland Rd., 2.8 miles southwest of Conway.	4.03	C, LF
45	South River near Conway, Mass. (01169900)	Lat 42°32'31", long 72°41'39", Franklin County, on left bank at downstream side of Reeds Bridge just off Bardwell Rd., 2.2 miles north of Conway, and 2.6 miles upstream from mouth.	24.0	C, D, S
46	Deerfield River near West Deerfield, Mass. (01170000)	Lat 42°32'09", long 72°39'14", Franklin County, on right bank 0.4 mile downstream from South River, 1.2 miles west of West Deerfield, and 2.5 miles west of Deerfield.	558	C, D, S
47	Deerfield River at West Deerfield, Mass.	Lat 42°31'20", long 72°37'33", Franklin County, 100 ft below bridge on Interstate Highway 91, and 0.8 mile south of West Deerfield.	--	C
48	Green River near Leyden, Mass. (01170070)	Lat 42°43'38", long 72°40'32", Franklin County, 400 ft above Borden Brook, 0.4 mile below Vermont State line, and 2.9 miles northwest of Leyden.	35.0	C, LF
49	Borden Brook near Leyden, Mass.	Lat 42°43'37", long 72°40'37", Franklin County, at culvert on Green River Rd., 100 ft above mouth, and 2.9 miles northwest of Leyden.	--	C
50	Green River near Colrain, Mass. (01170100)	Lat 42°42'12", long 72°40'16", Franklin County, on right bank 0.5 mile upstream from bridge on West Leyden Rd., and 2.5 miles northeast of Colrain.	41.4	C, D, S
51	Stafford Brook near Colrain, Mass. (01170120)	Lat 42°40'47", long 72°39'15", Franklin County, at culvert on Green River Rd., 200 ft above mouth, and 2.3 miles east of Colrain.	2.39	C, LF
52	Green River near Greenfield, Mass. (01170140)	Lat 42°39'16", long 72°37'33", Franklin County, 100 ft above Workman Brook, 300 ft east of Green River Rd., and 5 miles northwest of Greenfield.	50.8	C, LF
53	Green River at Greenfield water supply dam, near Greenfield, Mass.	Lat 42°38'48", long 72°37'15", Franklin County, at Greenfield water supply dam, 200 ft above bridge, and 4.2 miles northwest of Greenfield.	--	C
54	Glen Brook near Leyden, Mass. (01170160)	Lat 42°41'09", long 72°37'42", Franklin County, at culvert on private road, 1.1 miles south of Leyden.	2.32	C, LF
55	Punch Brook near Greenfield, Mass. (01170180)	Lat 42°37'17", long 72°37'32", Franklin County, at culvert on Plain Rd., 900 ft above mouth, and 2.6 miles northwest of Greenfield.	6.35	C, LF
56	Mill Brook (tributary to Green River) near Bernardston, Mass.	Lat 42°39'33", long 72°34'18", Franklin County, at culvert on Eden Trail, 1.3 miles southwest of Bernardston.	--	LF
57	Mill Brook (tributary to Green River) near Greenfield, Mass.	Lat 42°38'37", long 72°35'03", Franklin County, at bridge on Log Plain Rd., 4 miles northeast of Greenfield.	4.38	C, LF
58	Green River below Mill Brook, near Greenfield, Mass.	Lat 42°36'14", long 72°36'55", Franklin County, 0.2 mile below Mill Brook, 1.3 miles northwest of Greenfield.	--	C
59	Green River at Greenfield, Mass.	Lat 42°34'34", long 72°35'57", Franklin County, 0.8 mile above mouth, 0.8 mile south of Greenfield.	--	C
60	Deerfield River near Greenfield, Mass.	Lat 42°34'13", long 72°35'12", Franklin County, 0.3 mile below bridge on U.S. Highway 5, 0.8 mile above mouth, and 1.4 miles southeast of Greenfield.	--	C

Table 2.--Discharge at continuous-record gaging stations

21. Deerfield River at Charlemont, Mass.

DRAINAGE AREA.--362 sq mi.

PERIOD OF RECORD.--June 1913 to September 1969.

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--56 years (1913-69), 875 cfs (32.82 inches per year), adjusted for storage.

EXTREMES.--1913-69: Maximum discharge, 56,300 cfs Sept. 21, 1938 (gage height, 20.17 ft, from floodmarks), from rating curve extended above 31,000 cfs on basis of slope-area and contracted-opening measurements at gage heights 17.75 and 20.17 ft; minimum daily, 5 cfs June 17, 1921.

REMARKS.--Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants above station.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1913	-	-	-	-	-	-	-	-	-	175	219	167	-
1914	540	1,170	616	363	298	1,360	4,120	1,230	279	477	587	190	935
1915	90.8	177	133	761	1,400	515	1,570	396	224	1,610	1,190	541	712
1916	600	715	1,180	1,290	1,130	728	2,860	1,370	890	569	427	439	1,010
1917	436	747	691	572	590	1,250	2,410	1,410	860	296	299	309	821
1918	727	443	433	384	808	1,480	2,500	885	407	225	305	426	749
1919	527	599	969	583	268	1,990	1,590	2,030	344	274	269	819	860
1920	699	1,450	877	440	415	2,190	3,160	1,010	875	418	389	364	1,020
1921	591	748	1,670	724	669	3,640	1,270	874	425	614	337	270	993
1922	270	691	751	537	539	2,110	3,110	1,370	1,190	318	484	437	984
1923	366	338	234	636	522	1,050	3,290	911	554	226	139	244	706
1924	1,060	970	1,630	1,190	360	491	1,520	1,460	550	574	397	524	896
1925	681	429	683	526	948	1,290	964	729	619	562	665	676	730
1926	615	1,020	1,220	1,070	1,130	630	1,700	771	639	768	497	406	869
1927	453	825	840	878	915	1,430	694	555	581	616	721	700	767
1928	746	2,100	2,030	1,810	1,600	1,290	1,300	1,050	1,410	946	1,100	1,020	1,360
1929	930	863	579	667	831	1,750	2,450	1,630	668	642	527	398	995
1930	542	319	524	957	1,110	1,050	664	509	535	521	525	341	631
1931	352	407	598	389	331	429	1,630	1,400	1,330	482	477	496	693
1932	572	330	823	1,070	1,260	1,190	1,390	451	478	205	530	623	741
1933	569	1,070	1,070	1,230	1,000	760	2,330	725	753	416	226	763	905
1934	525	717	786	961	601	981	1,836	737	589	643	465	527	781
1935	603	761	1,030	1,457	1,348	1,490	898	568	336	632	712	678	874
1936	679	439	720	928	504	3,521	1,920	563	693	443	394	325	931
1937	310	904	1,133	1,766	1,694	698	1,586	1,998	485	342	333	602	983
1938	1,067	1,424	1,355	1,176	1,412	1,709	827	433	564	718	826	2,404	1,156
1939	857	915	1,214	1,106	1,172	1,527	2,217	941	594	135	287	387	943
1940	324	675	605	488	297	450	2,146	2,775	932	501	562	380	846
1941	384	705	1,048	1,033	1,294	1,106	1,167	328	188	136	319	342	667
1942	211	337	729	947	992	1,090	2,177	700	390	366	220	366	707
1943	479	1,226	1,010	971	1,113	1,483	1,717	2,889	750	321	367	419	1,062
1944	507	1,234	965	783	531	619	2,097	578	674	248	359	429	749
1945	342	717	845	751	964	2,107	1,790	2,036	1,269	1,006	502	359	1,058
1946	529	843	876	1,112	995	1,542	687	1,402	939	393	268	415	833
1947	342	344	575	874	1,005	1,491	2,994	1,926	676	517	429	525	973
1948	571	456	419	659	580	2,139	1,827	1,934	1,015	398	322	439	898
1949	219	242	1,770	2,001	1,063	1,643	948	499	401	134	189	314	786
1950	441	667	592	979	825	984	2,337	1,039	754	299	386	555	819
1951	461	1,204	1,479	1,064	1,316	1,797	2,487	678	599	655	439	682	1,068
1952	1,039	1,602	1,212	1,321	1,238	1,630	2,371	1,429	1,469	492	321	409	1,208
1953	372	373	985	967	1,266	3,042	1,798	2,045	392	240	311	74.0	990
1954	314	391	1,025	794	1,023	1,325	1,293	1,532	556	229	371	719	796
1955	583	1,783	1,397	1,130	1,046	1,414	2,389	539	399	265	922	547	1,032
1956	2,766	2,123	1,043	1,022	748	874	1,975	1,755	764	275	287	550	1,182
1957	506	721	930	939	1,000	1,191	698	452	214	217	342	368	630
1958	362	753	1,119	1,020	1,047	882	2,730	1,095	367	279	408	384	867
1959	460	758	849	971	1,062	1,022	1,675	577	270	355	327	277	714
1960	796	1,802	1,513	1,185	1,250	1,381	3,040	791	784	346	457	1,128	1,201
1961	811	904	858	570	717	1,165	1,791	1,266	347	194	395	356	781
1962	406	405	822	824	618	644	2,202	805	299	78.1	149	270	625
1963	325	715	1,112	857	800	1,247	1,852	837	289	289	215	347	739
1964	314	434	765	948	1,067	1,655	1,813	320	238	364	131	154	682
1965	292	187	250	495	704	809	1,313	332	391	299	252	172	455
1966	365	479	750	1,049	1,115	1,551	1,183	499	431	387	298	621	725
1967	570	873	728	719	940	819	1,911	1,278	748	482	418	436	824
1968	454	706	972	1,054	907	1,302	788	952	1,161	412	393	246	779
1969	289	655	1,451	1,079	999	927	3,468	1,218	1,024	601	1,020	456	1,096

21. Deerfield River at Charlemont, Mass.--Continued

Monthly and yearly runoff, in inches (adjusted)[a/]

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1913	-	-	-	-	-	-	-	-	-	0.33	0.25	0.53	-
1914	1.89	4.04	2.09	1.23	0.89	4.55	13.61	4.43	0.56	.80	.78	.20	35.07
1915	.32	.65	.51	2.72	4.37	1.73	5.37	1.44	.39	5.42	4.05	1.43	28.40
1916	1.57	2.14	3.60	4.39	3.52	2.41	9.50	4.90	2.96	1.75	.59	.96	38.29
1917	.95	2.33	2.04	1.53	1.17	4.17	8.08	5.03	2.97	.86	.88	.43	30.44
1918	2.43	1.17	.77	.69	2.26	5.03	8.45	3.29	1.46	.36	.33	1.32	27.56
1919	1.84	1.98	3.25	1.94	.52	6.91	5.24	6.88	.78	.48	.64	2.60	33.06
1920	2.42	4.74	2.73	.44	.39	7.26	10.60	3.63	2.92	1.28	1.04	.99	38.44
1921	1.88	2.57	5.64	1.98	1.34	12.57	4.25	2.88	1.00	1.97	.68	.30	37.06
1922	.68	2.21	2.59	1.20	1.42	7.07	10.58	4.75	3.95	.71	1.05	.63	36.84
1923	.61	.95	.69	2.19	1.03	3.47	11.03	3.18	1.64	.56	.40	.71	26.46
1924	3.31	3.05	5.51	3.79	.80	1.65	9.90	6.65	.81	.34	.30	.86	36.97
1925	.92	1.45	1.89	.52	4.52	6.88	4.65	2.32	1.34	1.80	.77	1.28	28.34
1926	2.03	4.76	3.49	1.24	.65	1.82	9.63	4.62	1.52	.46	.34	.52	31.08
1927	1.65	4.28	1.38	1.38	1.16	7.32	4.35	3.04	1.54	1.11	1.09	.94	29.24
1928	2.71	9.99	5.83	3.92	2.54	3.38	7.40	6.09	4.20	2.69	3.38	1.77	53.90
1929	.90	1.10	1.61	2.14	.87	9.30	10.72	5.70	.98	.47	.20	.28	34.27
1930	.58	1.26	1.73	3.29	2.94	4.23	3.73	2.59	2.04	.72	.35	.23	23.69
1931	.26	1.36	.89	.52	.41	1.51	10.76	5.54	4.04	1.27	.39	.73	27.68
1932	.47	1.17	2.95	5.10	1.60	1.33	9.34	2.86	.70	.73	.65	.22	27.12
1933	2.22	5.49	1.35	2.44	1.20	1.27	12.83	2.90	.40	.28	1.51	2.15	34.04
1934	1.50	1.48	1.99	2.17	.53	4.05	10.58	2.65	2.29	.50	.21	1.80	29.75
1935	1.59	2.98	2.88	4.52	1.00	5.16	4.59	3.45	1.72	3.06	.53	.71	32.19
1936	.43	2.61	1.28	1.87	.77	17.18	6.48	2.01	.78	.69	.89	.55	35.54
1937	1.92	2.21	4.65	5.87	2.99	1.18	8.23	7.26	1.78	.76	.49	1.08	38.42
1938	3.29	4.84	2.12	3.45	3.55	5.16	4.24	2.72	1.22	3.80	1.68	8.50	44.57
1939	1.57	1.60	4.48	1.61	1.93	3.78	11.49	3.54	.70	.28	.46	.62	32.06
1940	.93	1.48	1.41	.35	.45	.88	11.45	10.85	2.88	1.29	.31	1.40	33.68
1941	.41	2.91	3.49	1.53	2.10	1.32	6.59	1.67	1.01	.79	.39	.75	22.96
1942	1.40	2.01	2.02	2.36	.92	4.92	9.58	3.25	1.14	1.11	.49	.97	30.17
1943	1.25	4.06	2.09	1.23	1.94	4.61	8.02	11.23	2.12	.56	1.02	.22	38.35
1944	1.65	4.12	.96	.64	.75	3.54	9.66	2.56	2.69	.69	.20	1.17	28.63
1945	1.05	.99	1.92	2.05	1.30	10.80	6.56	6.55	3.73	3.05	.72	.96	39.68
1946	1.91	2.85	1.53	2.72	1.37	7.69	2.40	5.20	2.50	.65	.67	.70	30.19
1947	1.65	1.11	1.40	2.24	1.94	3.60	12.41	7.27	2.29	1.65	.91	.39	36.86
1948	.31	2.16	1.16	.77	1.38	9.98	6.67	6.36	3.22	.81	.34	.08	33.24
1949	.29	1.65	7.12	5.00	2.69	5.14	4.19	2.13	.41	.34	.23	.71	29.90
1950	.71	.99	2.83	4.60	1.45	2.98	9.24	3.56	2.02	.50	.91	1.98	31.77
1951	1.01	4.80	3.83	2.99	3.48	4.77	10.20	2.43	1.79	1.88	1.25	1.18	39.61
1952	3.56	5.14	3.67	4.29	2.49	2.51	11.48	5.18	4.16	.48	.49	.66	44.11
1953	.22	1.17	3.30	3.18	3.06	12.21	6.48	6.46	.69	.20	.25	.11	37.33
1954	.47	.81	3.93	1.37	3.03	5.03	6.16	5.41	1.36	.37	.82	2.71	31.47
1955	1.54	5.94	4.16	1.35	1.70	4.35	11.45	1.84	.77	.28	3.06	.72	37.16
1956	10.76	5.73	1.03	2.69	1.03	1.35	10.10	7.89	2.06	.76	.17	.93	44.50
1957	.64	2.40	3.19	2.57	1.65	2.67	4.58	2.80	1.00	.88	.12	.35	22.85
1958	.40	2.05	5.57	1.67	.89	1.35	13.97	4.38	.82	.88	.44	.83	33.25
1959	1.26	2.09	1.33	3.20	1.25	2.45	10.09	2.20	1.13	.48	.48	.38	26.34
1960	4.22	6.21	3.93	2.50	2.34	2.35	14.40	2.95	1.52	.98	.69	4.07	46.16
1961	1.60	2.21	1.24	.61	1.90	3.74	8.81	5.47	1.17	.60	.61	.47	28.43
1962	.30	1.23	1.23	1.92	.80	1.81	12.25	3.18	.51	.17	.40	.37	24.17
1963	1.67	2.24	2.43	.85	.62	3.22	9.71	4.20	.87	.24	.36	.28	26.69
1964	.20	2.90	2.31	2.21	1.12	4.91	9.81	1.45	.33	.25	.31	.05	25.85
1965	.13	.47	1.67	.78	1.17	.93	7.25	2.27	.52	.30	.31	.95	16.75
1966	2.39	2.38	2.02	1.66	1.65	3.78	6.65	3.58	1.17	.36	.22	1.06	26.92
1967	1.86	2.95	1.60	1.79	1.03	1.58	10.88	5.30	1.96	1.56	1.04	.40	31.95
1968	1.59	1.78	3.52	1.05	1.03	7.56	4.62	2.90	3.67	.77	.06	.61	29.16
1969	.54	3.17	4.34	1.29	1.00	1.89	17.37	3.67	2.98	1.91	1.67	.52	40.33

a/ Adjusted for change in contents in Somerset and Harriman Reservoirs.

21. Deerfield River at Charlemont, Mass.--Continued

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted[a]			Observed	Adjusted[a]	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1914	381	18,200	Apr. 20, 1914	30	935	936	2.59	35.07	774	761	28.53
1915	401, 781	38,200	July 8, 1915	29	712	756	2.09	28.40	889	912	34.23
1916	431	11,500	Dec. 26, 1915	191	1,010	1,020	2.82	38.29	960	965	36.30
1917	451	9,760	Apr. 21, 1917	90	821	814	2.25	30.44	799	786	29.49
1918	471	8,250	Apr. 3, 1918	46	749	735	2.03	27.56	791	806	30.26
1919	501	27,500	Mar. 28, 1919	64	860	881	2.43	33.06	937	956	35.88
1920	501	18,400	Apr. 13, 1920	81	1,020	1,020	2.82	38.44	1,023	1,029	38.64
1921	521	32,400	Mar. 9, 1921	5	993	991	2.74	37.06	882	867	32.45
1922	541	21,000	Apr. 12, 1922	62	984	982	2.71	36.84	919	896	33.61
1923	561	14,900	Apr. 29, 1923	54	706	706	1.95	26.46	935	962	36.08
1924	581	16,600	Oct. 24, 1923	57	896	983	2.72	36.97	739	781	29.36
1925	601	9,330	Feb. 12, 1925	70	730	755	2.09	28.34	818	915	34.36
1926	621	7,980	Apr. 25, 1926	90	869	829	2.29	31.08	807	750	28.11
1927	641	5,470	Mar. 19, 1927	96	767	780	2.15	29.24	998	1,079	40.46
1928	661	36,000	Nov. 3, 1927	132	1,360	1,430	3.95	53.90	1,156	1,036	38.98
1929	681	12,100	Apr. 29, 1929	28	995	914	2.52	34.27	913	912	34.23
1930	696	4,400	Mar. 26, 1930	45	631	632	1.75	23.69	628	605	22.63
1931	711	18,900	June 10, 1931	75	693	738	2.04	27.68	724	793	29.76
1932	726	6,070	Apr. 12, 1932	42	741	721	1.99	27.12	822	839	31.59
1933	741	13,000	Nov. 19, 1932	48	905	909	2.51	34.04	848	801	29.95
1934	756	11,600	Apr. 12, 1934	71	781	793	2.19	29.75	812	859	32.23
1935	781	11,300	Jan. 9, 1935	104	874	859	2.37	32.19	828	775	29.06
1936	801	32,200	Mar. 18, 1936	71	931	945	2.61	35.54	973	1,064	40.00
1937	821	15,800	May 15, 1937	72	983	1,026	2.83	38.42	1,109	1,065	39.89
1938	851	56,300	Sept. 21, 1938	108	1,156	1,189	3.28	44.57	1,084	1,119	41.97
1939	871	11,400	Apr. 19, 1939	54	943	854	2.36	32.06	827	751	28.23
1940	891	14,000	May 3, 1940	57	846	896	2.48	33.68	891	975	36.67
1941	921	4,500	Feb. 8, 1941	56	667	612	1.69	22.96	594	575	21.58
1942	951	5,950	Apr. 8, 1942	64	707	804	2.22	30.17	827	857	32.14
1943	971	14,000	May 13, 1943	95	1,062	1,023	2.83	38.35	1,061	1,005	37.68
1944	1001	13,700	June 24, 1944	85	749	762	2.10	28.63	683	688	25.86
1945	1031	15,000	Apr. 26, 1945	98	1,058	1,059	2.93	39.68	1,087	1,121	42.01
1946	1051	7,120	May 28, 1946	77	833	805	2.22	30.19	751	748	28.06
1947	1081	12,000	Apr. 12, 1947	82	973	983	2.72	36.86	988	969	36.33
1948	1111	12,200	Mar. 22, 1948	54	898	884	2.44	33.24	965	1,029	38.67
1949	1141	42,600	Dec. 31, 1948	44	786	797	2.20	29.90	740	676	25.37
1950	1171	8,280	Apr. 5, 1950	44	819	847	2.34	31.77	940	983	36.88
1951	1201	16,100	Nov. 26, 1950	66	1,068	1,056	2.92	39.61	1,127	1,129	42.34
1952	1231	27,000	June 1, 1952	51	1,208	1,173	3.24	44.11	1,032	969	36.43
1953	1271	11,300	Mar. 24, 1953	26	990	995	2.75	37.33	990	1,009	37.85
1954	1331	6,240	May 10, 1954	43	796	840	2.32	31.47	965	1,011	37.90
1955	1381	8,570	Aug. 19, 1955	47	1,032	990	2.73	37.16	1,215	1,148	43.04
1956	1431	18,100	Oct. 15, 1955	40	1,182	1,184	3.27	44.50	866	884	33.21
1957	1501	5,430	Jan. 23, 1957	29	630	609	1.68	22.85	636	657	24.64
1958	1551	7,820	Dec. 21, 1957	42	867	887	2.45	33.25	853	798	29.91
1959	1621	5,140	Jan. 22, 1959	38	714	702	1.94	26.34	884	961	36.02
1960	1701	12,800	Sept. 12, 1960	47	1,201	1,228	3.39	46.16	1,073	980	36.85
1961	1901	5,100	Apr. 23, 1961	55	781	758	2.09	28.43	702	697	26.14
1962	1901	7,820	Apr. 8, 1962	32	625	645	1.78	24.17	668	740	27.75
1963	1901	6,060	Apr. 3, 1963	36	739	712	1.97	26.69	686	687	25.76
1964	1901	5,820	Apr. 14, 1964	29	682	687	1.90	25.85	616	604	22.71
1965	1901	3,350	Apr. 16, 1965	28	455	447	1.23	16.75	528	567	21.27
1966	*	3,350	Mar. 25, 1966	50	725	718	1.98	26.92	773	708	26.54
1967	*	6,120	Apr. 3, 1967	74	824	852	2.35	31.95	821	865	32.43
1968	*	6,540	Mar. 24, 1968	51	779	776	2.14	29.16	801	806	30.33
1969	*	12,900	Apr. 23, 1969	62	1,096	1,075	2.97	40.33	-	-	-

a/ Adjusted for change in contents in Somerset and Harriman Reservoirs.
* Published in annual data release, Water resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.

38. North River at Shattuckville, Mass.

DRAINAGE AREA.--88.4 sq mi.

PERIOD OF RECORD.--October 1939 to September 1969. Monthly discharge only for October, November 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--30 years (1939-69), 171 cfs (26.27 inches per year).

EXTREMES.--1939-69: Maximum discharge, 13,200 cfs Oct. 15, 1955 (gage height, 10.37 ft), from rating curve extended above 5,700 cfs on basis of computation of flow over dam at gage height 9.62 ft; minimum daily, 5.1 cfs Oct. 3, 1948.

REMARKS.--Diurnal fluctuation at times caused by mill above station; prior to 1950, greater regulation by mill.

Monthly and yearly mean discharge, in cubic feet per second

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1940	61.4	111	101	31.4	23.7	46.2	926	440	214	76.9	29.4	48.5	175
1941	20.6	131	182	132	216	120	291	92.5	50.9	24.8	13.4	20.9	107
1942	19.4	54.1	92.4	129	55.8	454	447	176	100	77.5	33.8	63.2	142
1943	81.5	310	215	104	158	387	518	526	146	59.1	69.5	34.9	217
1944	126	307	90.2	48.3	62.9	247	624	144	146	46.4	22.2	65.0	160
1945	41.2	61.9	141	147	109	684	426	541	250	178	75.2	47.2	226
1946	73.0	118	136	187	118	479	175	282	175	44.8	34.9	40.0	156
1947	55.8	41.2	51.3	117	146	242	794	361	146	96.4	57.8	51.5	179
1948	20.5	141	84.1	54.7	108	571	421	445	261	53.2	20.5	10.0	183
1949	12.6	55.3	299	321	210	303	328	137	33.4	17.6	18.5	25.2	147
1950	27.3	44.2	103	201	108	264	613	229	130	38.5	27.6	63.1	154
1951	36.3	186	279	182	266	415	606	147	124	129	80.3	88.7	211
1952	186	379	271	270	215	230	718	345	301	56.4	37.7	47.7	254
1953	26.6	69.8	225	208	244	866	467	377	47.7	21.9	17.0	9.00	215
1954	21.7	35.0	146	71.2	213	335	290	361	79.4	28.5	34.4	145	146
1955	74.9	384	294	93.8	101	285	662	144	68.9	28.2	228	49.0	201
1956	832	468	90.3	151	65.3	91.7	809	330	121	39.8	12.5	54.2	255
1957	35.3	119	167	151	144	217	246	153	51.6	23.6	13.8	14.3	111
1958	17.4	71.9	274	166	104	153	853	228	59.6	38.3	17.5	32.4	168
1959	55.9	107	83.3	136	89.2	184	665	148	49.7	35.8	28.0	17.6	133
1960	163	338	295	155	170	133	1,022	259	91.8	72.4	65.0	306	254
1961	98.3	136	78.5	48.0	139	317	705	307	80.8	45.0	28.3	34.9	168
1962	22.5	62.8	49.5	90.4	52.0	153	778	206	45.0	17.5	28.3	23.2	127
1963	82.2	159	186	80.1	64.7	248	517	214	70.5	23.1	16.2	13.9	140
1964	12.5	71.4	97.3	157	110	307	564	120	34.2	32.0	20.8	9.84	128
1965	11.8	25.4	67.2	36.3	81.9	112	438	104	28.4	18.1	16.7	25.6	79.9
1966	62.9	83.0	101	84.1	122	294	316	181	61.3	24.8	13.0	36.5	115
1967	68.7	192	87.2	98.7	84.7	107	776	356	161	146	50.2	25.0	179
1968	84.8	104	232	92.7	95.8	471	264	190	378	83.4	20.0	37.2	171
1969	35.7	159	281	106	87.4	172	1,076	212	229	148	138	48.3	224

Monthly and yearly runoff, in inches

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1940	0.80	1.40	1.32	0.41	0.29	0.60	11.69	5.74	2.70	1.00	0.38	0.61	26.94
1941	.27	1.65	2.38	1.72	2.54	1.57	3.67	1.21	.64	.32	.17	.26	16.40
1942	.25	.68	1.21	1.69	.66	5.93	5.64	2.29	1.26	1.01	.44	.80	21.86
1943	1.06	3.91	2.80	1.36	1.86	5.04	6.53	6.86	1.84	.77	.91	.44	33.38
1944	1.65	3.88	1.18	.63	.77	3.22	7.87	1.87	1.84	.60	.29	.82	24.62
1945	.54	.78	1.84	1.92	1.29	8.91	5.38	7.05	3.16	2.32	.98	.60	34.77
1946	.95	1.49	1.77	2.44	1.39	6.24	2.21	3.68	2.21	.58	.46	.50	23.92
1947	.73	.52	.67	1.53	1.71	3.15	10.02	4.70	1.84	1.26	.75	.65	27.53
1948	.27	1.78	1.10	.71	1.32	7.44	5.31	5.80	3.29	.69	.27	.13	28.11
1949	.16	.70	3.90	4.19	2.48	3.95	4.15	1.79	.42	.23	.24	.32	22.53
1950	.36	.56	1.34	2.62	1.27	3.44	7.74	2.98	1.64	.50	.36	.80	23.61
1951	.47	2.35	3.64	2.37	3.13	5.41	7.64	1.92	1.57	1.69	1.05	1.12	32.36
1952	2.42	4.79	3.53	3.52	2.62	3.00	9.06	4.51	3.80	.74	.49	.60	39.08
1953	.35	.88	2.94	2.72	2.87	11.29	5.89	4.92	.60	.29	.22	.11	33.08
1954	.28	.44	1.91	.93	2.51	4.37	3.66	4.70	1.00	.37	.45	1.83	22.45
1955	.98	4.85	3.84	1.22	1.19	3.72	8.36	1.88	.87	.37	2.97	.62	30.87
1956	10.85	5.91	1.18	1.97	.80	1.20	10.21	4.31	1.53	.52	.16	.68	39.32
1957	.46	1.50	2.18	1.97	1.69	2.82	3.10	1.99	.65	.31	.18	.18	17.03
1958	.23	.91	3.57	2.16	1.23	2.00	10.77	2.97	.75	.50	.23	.41	25.73
1959	.73	1.35	1.09	1.78	1.05	2.40	8.40	1.93	.63	.47	.37	.22	20.42
1960	2.13	4.26	3.85	2.02	2.08	1.74	12.89	3.37	1.16	.94	.85	3.86	39.15

38. North River at Shattuckville, Mass.--Continued

Monthly and yearly runoff, in inches--Continued

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1961	1.28	1.72	1.02	0.63	1.63	4.13	8.90	4.00	1.02	0.59	0.37	0.44	25.73
1962	.29	.79	.65	1.18	.61	2.00	9.82	2.68	.57	.23	.37	.29	19.48
1963	1.07	2.01	2.43	1.04	.76	3.23	6.53	2.79	.89	.30	.21	.18	21.43
1964	.16	.90	1.27	2.05	1.35	4.01	7.12	1.56	.43	.42	.27	.12	19.66
1965	.15	.32	.88	.47	.96	1.46	5.53	1.36	.36	.24	.22	.32	12.27
1966	.82	1.05	1.31	1.10	1.43	3.84	3.99	2.36	.77	.32	.17	.46	17.63
1967	.90	2.42	1.14	1.29	1.00	1.39	9.80	4.64	2.03	1.91	.65	.32	27.47
1968	1.11	1.31	3.02	1.21	1.17	6.14	3.34	2.48	4.77	1.09	.26	.47	26.37
1969	.47	2.00	3.66	1.39	1.03	2.24	13.6	2.77	2.89	1.93	1.80	.61	34.36

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1940	891	2,650	Apr. 12, 1940	-	175	1.98	26.94	180	27.72
1941	921	2,500	Feb. 8, 1941	6.0	107	1.21	16.40	92.8	14.24
1942	951	2,700	Mar. 22, 1942	8	142	1.61	21.86	179	27.49
1943	971	3,360	Apr. 28, 1943	6.8	217	2.45	33.38	210	32.32
1944	1001	4,150	Nov. 9, 1943	7.8	160	1.81	24.62	137	21.07
1945	1031, 1111	4,570	Apr. 26, 1945	15	226	2.56	34.77	233	35.82
1946	1051	2,130	Mar. 9, 1946	8.6	156	1.76	23.92	141	21.63
1947	1081	3,160	Apr. 12, 1947	14	179	2.02	27.53	187	28.76
1948	1111	4,520	Mar. 22, 1948	5.7	183	2.07	28.11	193	29.72
1949	1141	10,000	Dec. 31, 1948	5.1	147	1.66	22.53	130	20.03
1950	1171	2,520	Apr. 4, 1950	8.3	154	1.74	23.61	181	27.81
1951	1201	6,500	Mar. 31, 1951	17	211	2.39	32.36	239	36.64
1952	1231	5,980	June 1, 1952	14	254	2.87	39.08	211	32.51
1953	1271	6,500	Mar. 24, 1953	6.0	215	2.43	33.08	205	31.54
1954	1331	3,180	Sept. 11, 1954	7.4	146	1.65	22.45	192	29.49
1955	1381	4,660	Nov. 3, 1954	9.4	201	2.27	30.87	255	39.14
1956	1431	13,200	Oct. 15, 1955	10	255	2.88	39.32	166	25.52
1957	1501	2,380	Jan. 23, 1957	8.9	111	1.26	17.03	115	17.60
1958	1551	3,400	Dec. 21, 1957	8.6	168	1.90	25.73	157	24.19
1959	1621	2,960	Apr. 3, 1959	10	133	1.50	20.42	179	27.49
1960	1701	7,750	Sept. 20, 1960	18	254	2.87	39.15	214	32.95
1961	1901	3,090	Apr. 23, 1961	12	168	1.90	25.73	153	23.44
1962	1901	3,990	Apr. 8, 1962	8.6	127	1.44	19.48	151	23.25
1963	1901	3,670	Dec. 6, 1962	7.0	140	1.58	21.43	119	18.26
1964	1901	3,160	Apr. 14, 1964	6.8	128	1.44	19.66	121	18.68
1965	1901	1,690	Apr. 16, 1965	7.6	79.9	.90	12.27	91.8	14.10
1966	*	1,610	Mar. 25, 1966	7.1	115	1.30	17.63	123	18.90
1967	*	2,700	Apr. 3, 1967	15	179	2.02	27.47	185	28.46
1968	*	5,040	Apr. 25, 1968	11	171	1.94	26.37	176	27.06
1969	*	9,100	Apr. 23, 1969	14	224	2.53	34.36	-	-

* Published in annual data release, Water resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.

45. South River near Conway, Mass.

DRAINAGE AREA.--24.0 sq mi.

PERIOD OF RECORD.--June 1966 to September 1969.

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (from topographic map).

EXTREMES.--1966-69: Maximum discharge, 3,000 cfs Apr. 23, 1969 (gage height, 7.40 ft), from rating curve extended above 390 cfs; minimum, 3.0 cfs Aug. 21, 22, Sept. 2, 3, 1966.

Monthly and yearly mean discharge, in cubic feet per second

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1966	-	-	-	-	-	-	-	-	-	10.7	4.97	9.59	-
1967	17.1	40.8	22.5	25.8	23.0	32.3	172	76.5	45.3	27.3	8.83	5.43	41.2
1968	18.7	20.6	51.9	26.1	26.0	118	65.9	53.9	117	29.2	6.67	17.4	45.9
1969	10.3	36.5	70.3	28.8	23.9	53.1	212	43.1	26.7	22.5	28.9	25.6	48.4

45. South River near Conway, Mass.--Continued

Monthly and yearly runoff, in inches

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1966	-	-	-	-	-		-	-	-	0.52	0.24	0.45	-
1967	0.82	1.90	1.08	1.24	1.00	1.55	7.97	3.67	2.11	1.31	.42	.25	23.33
1968	.90	.96	2.49	1.25	1.17	5.67	3.06	2.59	5.42	1.40	.32	.81	26.05
1969	.50	1.70	3.37	1.38	1.04	2.55	9.87	2.07	1.24	1.08	1.39	1.19	27.38

Yearly discharge, in cubic feet per second

Year	Annual data release*	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1967	1967	695	Nov. 3, 1966	3.5	41.2	1.72	23.33	42.2	23.89
1968	1968	1,790	Apr. 25, 1968	4.1	45.9	1.91	26.05	48.1	27.27
1969	1969	3,000	Apr. 23, 1969	5.8	48.4	2.02	27.38	-	-

* Water resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.

46. Deerfield River near West Deerfield, Mass.

DRAINAGE AREA.--558 sq mi. Prior to December 1905, 562 sq mi (revised).

PERIOD OF RECORD.--March to November 1904, January 1905, March to December 1905, October 1940 to September 1969. Published as "at Deerfield" 1904-5.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (from topographic map). Prior to Dec. 16, 1905, nonrecording gage at site 1.5 miles downstream at different datum.

AVERAGE DISCHARGE.--29 years (1940-69), 1,225 cfs (29.81 inches per year), adjusted for storage.

EXTREMES.--1940-69: Maximum discharge, 48,500 cfs Dec. 31, 1948 (gage height, 15.43 ft); minimum daily, 28 cfs July 29, 1962.

REMARKS.--Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants above station.

Monthly and yearly mean discharge, in cubic feet per second (observed)

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1904	-	-	-	-	-	-	4,050	2,270	1,200	411	476	915	-
1905	983	336	-	-	-	-	3,380	716	682	421	588	2,110	-
1906	630	696	-	-	-	-	-	-	-	-	-	-	-
1941	451	998	1,461	1,301	1,739	1,361	1,783	516	316	209	370	382	901
1942	248	437	947	1,241	1,127	2,200	3,068	1,109	597	566	342	552	1,034
1943	673	1,919	1,571	1,261	1,508	2,397	2,772	3,945	1,105	479	503	516	1,554
1944	756	1,896	1,226	961	693	1,140	3,240	937	998	369	441	605	1,101
1945	456	944	1,256	1,103	1,354	3,531	2,683	3,125	1,850	1,369	688	482	1,573
1946	705	1,116	1,187	1,534	1,289	2,469	1,041	1,953	1,397	531	356	531	1,177
1947	467	440	699	1,144	1,341	2,064	4,425	2,657	981	682	531	599	1,333
1948	614	777	602	895	876	3,487	2,668	2,880	1,723	553	368	474	1,328
1949	255	370	2,145	2,718	1,535	2,235	1,685	811	484	170	233	369	1,084
1950	507	759	775	1,427	1,114	1,593	3,452	1,460	1,020	362	430	621	1,123
1951	510	1,489	1,947	1,383	1,875	2,725	3,615	946	781	843	602	822	1,456
1952	1,355	2,400	1,830	1,896	1,731	2,150	3,833	2,152	2,129	655	432	518	1,752
1953	441	555	1,495	1,432	1,823	4,771	2,791	2,801	538	291	354	94.5	1,451
1954	376	477	1,321	973	1,509	2,004	1,890	2,376	756	302	445	1,082	1,124
1955	778	2,668	2,121	1,440	1,317	2,043	3,655	877	572	322	1,522	675	1,496
1956	4,632	3,302	1,303	1,372	924	1,174	3,625	2,460	1,039	370	324	660	1,766
1957	592	981	1,318	1,341	1,328	1,675	1,239	768	329	268	388	405	884
1958	411	907	1,661	1,417	1,367	1,336	4,351	1,635	501	361	450	454	1,233
1959	582	1,001	1,088	1,328	1,309	1,510	2,965	892	380	479	422	335	1,020
1960	1,203	2,496	2,186	1,587	1,724	1,774	4,937	1,326	999	503	591	1,622	1,737
1961	1,008	1,177	1,034	684	1,061	1,933	3,177	1,908	517	303	457	431	1,139
1962	455	525	927	1,040	757	1,083	3,691	1,224	421	119	195	319	894
1963	466	1,011	1,459	1,061	981	1,852	2,992	1,292	443	327	240	373	1,040
1964	350	607	1,007	1,311	1,335	2,402	2,885	575	307	433	167	175	960
1965	326	244	385	622	928	1,097	2,086	541	473	357	299	237	629
1966	504	633	970	1,218	1,367	2,179	1,814	862	571	465	342	714	967
1967	716	1,248	938	942	1,175	1,134	3,382	2,009	1,219	808	527	505	1,213
1968	618	892	1,415	1,289	1,159	2,175	1,327	1,383	1,999	632	462	334	1,140
1969	370	958	1,986	1,306	1,198	1,338	4,877	1,533	1,325	812	1,248	595	1,459

46. Deerfield River near West Deerfield, Mass.--Continued

Monthly and yearly runoff, in inches (adjusted)[a/]

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1904	-	-	-	-	-	-	8.04	4.66	2.39	0.84	0.98	1.82	-
1905	2.02	0.67	-	-	-	-	6.70	1.46	1.35	.86	1.21	4.18	-
1906	1.29	1.38	-	-	-	-	-	-	-	-	-	-	-
1941	.40	2.48	3.12	1.55	2.20	1.38	5.51	1.47	.91	.66	.36	.57	20.61
1942	.98	1.50	1.76	2.14	.85	5.48	8.00	2.95	1.15	1.13	.57	1.00	27.51
1943	1.21	4.02	2.51	1.40	1.99	4.88	7.31	9.47	2.08	.69	.94	.34	36.84
1944	1.58	4.00	1.16	.78	.80	3.37	8.55	2.40	2.39	.70	.30	1.11	27.14
1945	.92	1.10	2.09	2.06	1.57	9.95	6.04	6.50	3.58	2.73	.85	.87	38.26
1946	1.60	2.40	1.64	2.64	1.44	6.90	2.27	4.51	2.54	.71	.61	.68	27.94
1947	1.33	.91	1.17	2.01	1.88	3.52	10.91	6.23	2.10	1.41	.80	.40	32.67
1948	.29	2.04	1.13	.99	1.47	9.26	6.01	6.08	3.51	.85	.31	.12	32.06
1949	.26	1.33	5.39	4.72	2.63	4.56	4.19	2.02	.43	.29	.24	.57	26.63
1950	.60	.83	2.21	3.91	1.48	3.19	8.22	3.18	1.84	.46	.68	1.42	28.02
1951	.76	3.68	3.45	2.60	3.30	5.01	8.88	2.13	1.52	1.61	1.14	1.05	35.13
1952	2.96	4.93	3.66	3.97	2.57	2.70	10.37	4.85	4.02	.65	.55	.65	41.88
1953	.28	1.12	3.20	3.02	3.02	11.50	6.19	5.76	.74	.24	.25	.11	35.43
1954	.43	.70	3.16	1.26	2.87	4.67	5.19	5.25	1.28	.39	.69	2.48	28.37
1955	1.40	5.62	4.19	1.51	1.61	4.12	9.96	1.89	.85	.30	3.22	.72	35.39
1956	10.84	6.08	1.21	2.47	1.01	1.50	9.85	6.58	1.88	.69	.19	.83	43.13
1957	.59	2.08	2.87	2.50	1.68	2.73	4.05	2.47	.88	.67	.17	.30	20.99
1958	.36	1.64	4.73	1.90	1.17	1.81	12.30	3.96	.80	.74	.37	.68	30.46
1959	1.07	1.84	1.35	2.81	1.27	2.60	9.13	2.08	.95	.57	.51	.36	24.54
1960	3.58	5.42	3.94	2.45	2.43	2.33	13.14	3.02	1.41	.96	.73	3.63	43.04
1961	1.45	1.98	1.17	.63	1.88	4.01	8.49	4.87	1.10	.61	.52	.45	27.16
1962	.30	1.04	1.01	1.69	.78	2.08	10.92	2.93	.57	.20	.35	.34	22.21
1963	1.38	2.04	2.30	.97	.74	3.34	8.58	3.66	.87	.24	.28	.23	24.63
1964	.20	2.22	2.00	2.18	1.25	4.73	8.51	1.47	.36	.30	.27	.07	23.56
1965	.15	.42	1.36	.77	1.18	1.20	6.25	1.90	.51	.31	.30	.75	15.10
1966	1.84	1.85	1.77	1.43	1.54	3.75	5.58	3.07	1.04	.40	.23	.88	23.38
1967	1.51	2.66	1.47	1.62	1.11	1.68	10.00	4.95	2.21	1.68	.90	.40	30.19
1968	1.37	1.53	3.20	1.17	1.16	6.71	4.08	2.77	4.06	.95	.18	.57	27.75
1969	.52	2.66	3.92	1.31	1.02	2.07	14.08	3.03	2.53	1.68	1.55	.61	34.99

a/ Adjusted for change in contents in Somerset and Harriman Reservoirs since October 1940.

Yearly discharge, in cubic feet per second

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted[a/]			Observed	Adjusted[a/]	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1904	415	-	-	-	-	-		-	-	-	-
1905	415	-	-	-	-	-		-	-	-	-
1906	415	-	-	-	-	-		-	-	-	-
1941	921	10,000	Feb. 8, 1941	57	901	847	1.52	20.61	794	775	18.85
1942	951	10,700	Mar. 9, 1942	59	1,034	1,131	2.03	27.51	1,245	1,275	31.01
1943	971	15,700	May 13, 1943	98	1,554	1,515	2.72	36.84	1,530	1,474	35.84
1944	1001	20,100	Nov. 9, 1943	80	1,101	1,114	2.00	27.14	1,000	1,005	24.51
1945	1031	21,300	Apr. 26, 1945	80	1,573	1,573	2.82	38.26	1,602	1,636	39.79
1946	1051	10,800	May 28, 1946	74	1,177	1,148	2.06	27.94	1,059	1,057	25.71
1947	1081	17,500	Apr. 12, 1947	46	1,333	1,343	2.41	32.67	1,365	1,346	32.72
1948	1111	21,100	Mar. 22, 1948	69	1,328	1,314	2.35	32.06	1,395	1,458	35.58
1949	1141	48,500	Dec. 31, 1948	48	1,084	1,095	1.96	26.63	1,021	958	23.29
1950	1171	12,500	Apr. 5, 1950	50	1,123	1,151	2.06	28.02	1,283	1,326	32.27
1951	1201	24,400	Nov. 26, 1950	50	1,456	1,444	2.59	35.13	1,593	1,594	38.79
1952	1231	34,800	June 1, 1952	72	1,752	1,717	3.08	41.88	1,495	1,433	34.93
1953	1271	22,200	Mar. 24, 1953	50	1,451	1,456	2.61	35.43	1,424	1,443	35.12
1954	1331	13,400	Sept. 11, 1954	46	1,124	1,167	2.09	28.37	1,406	1,451	35.29
1955	1381	18,600	Aug. 19, 1955	65	1,496	1,455	2.61	35.39	1,806	1,739	42.31
1956	1431	43,700	Oct. 15, 1955	56	1,766	1,767	3.17	43.13	1,235	1,252	30.54
1957	1501	9,570	Jan. 23, 1957	50	884	863	1.55	20.99	892	912	22.18
1958	1551	13,800	Dec. 21, 1957	59	1,233	1,253	2.25	30.46	1,206	1,151	27.99
1959	1621	11,100	Apr. 3, 1959	56	1,020	1,009	1.81	24.54	1,289	1,365	33.22
1960	1701	24,700	Sept. 12, 1960	75	1,737	1,764	3.16	43.04	1,515	1,423	34.70

46. Deerfield River near West Deerfield, Mass.--Continued

Yearly discharge, in cubic feet per second--Continued

Year	WSP	Water year ending Sept. 30							Calendar year		
		Observed				Adjusted[a]			Observed	Adjusted[a]	
		Momentary maximum		Minimum day	Mean	Mean	Per square mile	Runoff in inches	Mean	Mean	Runoff in inches
		Discharge	Date								
1961	1901	9,940	Apr. 23, 1961	45	1,139	1,117	2.00	27.16	1,030	1,024	24.91
1962	1901	14,200	Apr. 8, 1962	28	894	913	1.64	22.21	980	1,052	25.58
1963	1901	10,400	Apr. 3, 1963	44	1,040	1,013	1.82	24.63	959	960	23.33
1964	1901	10,100	Apr. 14, 1964	44	960	966	1.73	23.56	876	864	21.07
1965	1901	6,210	Apr. 16, 1965	46	629	621	1.11	15.10	726	765	18.63
1966	*	7,520	Mar. 25, 1966	42	967	961	1.72	23.38	1,033	968	23.56
1967	*	11,500	Apr. 3, 1967	90	1,213	1,241	2.22	30.19	1,216	1,260	30.65
1968	*	14,700	Apr. 25, 1968	51	1,140	1,137	2.04	27.75	1,173	1,178	28.75
1969	*	16,900	Apr. 23, 1969	74	1,459	1,438	2.58	34.99	-	-	-

a/ Adjusted for change in contents in Somerset and Harriman Reservoirs since October 1940.
* Published in annual data release, Water resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.

50. Green River near Colrain, Mass.

DRAINAGE AREA.--41.4 sq mi.

PERIOD OF RECORD.--October 1967 to September 1969.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (from topographic map).

EXTREMES.--1967-69: Maximum discharge, 2,210 cfs Apr. 23, 1969 (gage height, 7.20 ft), from rating curve extended above 410 cfs; minimum, 1.9 cfs Aug. 1, 1968.

Monthly and yearly mean discharge, in cubic feet per second

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1968	42.5	57.9	95.1	43.8	40.4	199	118	91.7	141	45.7	9.62	15.9	75.2
1969	14.6	67.0	123	50.3	41.8	75.6	388	105	115	81.4	80.4	25.0	97.2

Monthly and yearly runoff, in inches

Water year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	The year
1968	1.18	1.56	2.65	1.22	1.05	5.54	3.19	2.55	3.80	1.27	0.27	0.43	24.72
1969	.41	1.81	3.44	1.40	1.05	2.10	10.5	2.91	3.10	2.27	2.24	.67	31.86

Yearly discharge, in cubic feet per second

Year	Annual data release*	Water year ending Sept. 30						Calendar year	
		Momentary maximum		Minimum day	Mean	Per square mile	Runoff in inches	Mean	Runoff in inches
		Discharge	Date						
1968	1968	1,460	Apr. 25, 1968	4.1	75.2	1.82	24.72	76.0	24.97
1969	1969	2,210	Apr. 23, 1969	6.5	97.2	2.35	31.86	-	-

* Water resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.

Table 3.--Discharge at low-flow stations

Map reference number (Plate 1)	Station name	Drainage area (sq mi)	Measurements	
			Date	Discharge (cfs)
2	Dunbar Brook near Monroe Bridge, Mass.---------	7.01	9- 7-67	4.11
			10- 9-67	3.68
			8- 7-68	2.20
			9-18-68	1.40
			9-24-68	.92
			8-25-69	3.28
			9-15-69	2.78
4	Fife Brook near Hoosac Tunnel, Mass.----------	2.11	9- 7-67	1.60
			10- 9-67	1.05
			8- 7-68	1.21
			9-18-68	.68
			9-24-68	.63
			8-25-69	2.12
			9-15-69	1.24
6	Potter Brook near Rowe, Mass.----------	1.57	9- 7-67	.20
			8- 7-68	.09
			9-18-68	.09
			9-24-68	.05
			8-25-69	.11
			9-16-69	.16
7	Pelham Brook at Rowe, Mass.----------	7.19	9- 7-67	1.16
			10-16-67	2.25
			8- 7-68	.73
			9-18-68	1.24
			9-24-68	.65
			8-25-69	.96
			9-16-69	1.62
8	Pelham Brook at Zoar, Mass.----------	13.5	9- 7-67	2.87
			10-16-67	4.85
			8- 7-68	2.50
			9-18-68	2.86
			9-24-68	1.94
			8-25-69	2.98
			9-16-69	3.46
9	Cold River at Florida, Mass.----------	6.48	9- 8-67	1.27
			8- 7-68	.34
			9-18-68	.44
			9-24-68	.20
			8-27-69	.64
			9-15-69	1.01
10	Black Brook near Drury, Mass.----------	3.82	9- 7-67	.53
			8- 7-68	.46
			9-18-68	.56
			9-24-68	.30
			8-27-69	.92
			9-16-69	1.26
11	Cold River near Zoar, Mass.----------	29.6	9- 9-67	5.56
			8- 7-68	4.30
			9-18-68	4.23
			9-24-68	2.60
			8-27-69	6.38
			9-16-69	8.42

Table 3.--Discharge at low-flow stations--Continued

Map reference number (Plate 1)	Station name	Drainage area (sq mi)	Measurements	
			Date	Discharge (cfs)
12	Chickley River at West Hawley, Mass.----------	8.71	9- 7-67	3.05
			8- 7-68	3.09
			9-18-68	2.15
			9-24-68	1.82
			8-27-69	3.81
			9-16-69	5.15
13	King Brook at West Hawley, Mass.----------	5.22	9- 7-67	1.30
			8- 7-68	.75
			9-18-68	1.17
			9-24-68	.66
			8-29-69	1.18
			9-16-69	2.23
14	Mill Brook (tributary to Chickley River) near West Hawley, Mass.----------	6.28	9- 7-67	1.51
			8- 7-68	2.39
			9-18-68	1.55
			9-24-68	1.47
			8-27-69	2.08
			9-16-69	3.15
15	Chickley River near Charlemont, Mass.----------	27.1	9- 7-67	6.95
			8- 7-68	8.06
			9-18-68	6.88
			9-24-68	5.07
			8-27-69	10.9
			9-16-69	14.9
16	Legate Hill Brook near Charlemont, Mass.-------	2.62	9- 7-67	.27
			10- 9-67	.35
			10-16-67	.52
			8- 7-68	.50
			9-18-68	.27
			9-24-68	.14
			8-26-69	.29
			9-15-69	.40
18	Bozrah Brook at Charlemont, Mass.----------	3.84	9- 7-67	.45
			8- 7-68	.80
			9-18-68	.62
			9-24-68	.48
			8-26-69	.80
			9-16-69	1.29
19	Mill Brook (tributary to Deerfield River) near Charlemont, Mass.----------	7.78	9- 6-67	2.47
			10- 9-67	2.20
			10-16-67	2.70
			8- 7-68	3.23
			9-18-68	1.97
			9-24-68	1.77
			8-26-69	2.68
			9-16-69	2.97
20	Maxwell Brook near Charlemont, Mass.----------	2.94	9- 6-67	.64
			10- 9-67	.70
			10-16-67	.81
			8- 7-68	.94
			9-18-68	.55
			9-24-68	.48
			8-26-69	.85
			9-16-69	.85

Table 3.--Discharge at low-flow stations--Continued

Map reference number (Plate 1)	Station name	Drainage area (sq mi)	Measurements	
			Date	Discharge (cfs)
23	Avery Brook near Charlemont, Mass.----------	3.88	9- 6-67	1.59
			10-18-67	1.56
			8- 8-68	2.79
			9-19-68	1.53
			9-24-68	1.39
			8-26-69	2.11
			9-16-69	2.38
24	Clesson Brook near Buckland, Mass.----------	7.48	9- 7-67	2.65
			8- 8-68	4.16
			8-20-68	2.72
			9-19-68	2.48
			9-25-68	2.29
			8-26-69	3.55
			9-17-69	3.77
25	Upper Branch Clesson Brook near Buckland, Mass.	5.77	9- 7-67	1.75
			8- 8-68	3.52
			8-20-68	2.15
			9-19-68	2.07
			9-25-68	1.94
			8-26-69	2.64
			9-17-69	2.91
26	Clesson Brook near Shelburne Falls, Mass.------	18.2	9- 6-67	5.99
			8- 8-68	10.8
			9-19-68	6.78
			9-25-68	6.01
			8-26-69	9.38
			9-17-69	10.6
27	Clark Brook near Shelburne Falls, Mass.--------	2.78	9- 6-67	.31
			8- 8-68	.76
			9-19-68	.54
			9-24-68	.40
			8-26-69	.50
			9-17-69	1.17
32	Foundry Brook at Lyonsville, Mass.----------	2.13	9- 6-67	.62
			10-17-67	.78
			8- 8-68	.93
			8-20-68	.66
			9-19-68	.62
			9-25-68	.52
			8-27-69	.99
			9-17-69	1.09
34	West Branch Brook at North Heath, Mass.--------	6.90	9- 6-67	1.00
			10-18-67	2.36
			8- 8-68	.62
			9-19-68	.87
			9-25-68	.61
			8-26-69	1.44
			9-17-69	1.17

Table 3.--Discharge at low-flow stations

Map reference number (Plate 1)	Station name	Drainage area (sq mi)	Measurements	
			Date	Discharge (cfs)
35	Sanders Brook near North Heath, Mass.----------	4.00	9- 6-67	1.33
			10-17-67	1.26
			8- 8-68	1.57
			8-20-68	1.00
			9-19-68	.99
			9-25-68	.86
			8-26-69	1.72
			9-16-69	1.30
36	Taylor Brook near Lyonsville, Mass.----------	5.20	9- 6-67	1.22
			10-17-67	1.48
			8- 8-68	1.72
			8-20-68	1.06
			9-19-68	1.18
			9-25-68	.97
			8-26-69	2.01
			9-16-69	2.47
37	West Branch North River at Lyonsville, Mass.---	29.8	9- 6-67	7.81
			10-17-67	11.0
			8- 8-68	8.98
			8-20-68	5.70
			9-19-68	6.52
			9-25-68	7.04
			8-27-69	12.4
			9-16-69	13.6
41	Bear River near Conway, Mass.----------	10.5	9- 6-67	2.18
			10-18-67	2.18
			8- 8-68	3.09
			8-20-68	1.25
			9-19-68	1.93
			9-25-68	1.32
			8-26-69	2.54
			9-22-69	3.27
42	Dragon Brook at Shelburne, Mass.----------	3.57	9- 6-67	.51
			10-18-67	.73
			8- 9-68	.75
			8-20-68	.46
			9-19-68	.85
			9-25-68	.67
			8-26-69	1.13
			9-22-69	1.74
43	Creamery Brook at South Ashfield, Mass.--------	3.65	9- 7-67	.66
			8- 8-68	1.00
			8-20-68	.63
			9-19-68	.84
			9-25-68	.66
			8-25-69	1.20
			10- 1-69	1.19
44	Poland Brook near Conway, Mass.----------	4.03	9- 7-67	.60
			8- 8-68	.98
			8-20-68	.53
			9-19-68	.83
			9-25-68	.61
			8-25-69	1.46
			10- 1-69	1.37

Table 3.--Discharge at low-flow stations--Continued

Map reference number (Plate 1)	Station name	Drainage area (sq mi)	Measurements	
			Date	Discharge (cfs)
48	Green River near Leyden, Mass.----------	35.0	9- 6-67	9.56
			10-17-67	14.4
			8- 9-68	11.1
			8-20-68	7.60
			9-20-68	8.24
			8-29-69	18.4
51	Stafford Brook near Colrain, Mass.----------	2.39	9- 6-67	.45
			10-17-67	.69
			8- 9-68	.64
			8-20-68	.39
			9-20-68	.43
			8-29-69	.90
52	Green River near Greenfield, Mass.----------	50.8	9- 6-67	13.5
			10-17-67	18.7
			8- 9-68	15.8
			8-20-68	10.9
			9-19-68	10.3
			9-25-68	9.20
			8-27-69	27.0
			9-17-69	21.7
54	Glen Brook near Leyden, Mass.----------	2.32	9- 6-67	.13
			10-16-67	.60
			8- 8-68	.24
			8-20-68	.05
			9-20-68	.16
			9-25-68	.08
			8-27-69	.46
			9-17-69	.60
55	Punch Brook near Greenfield, Mass.----------	6.35	9- 6-67	1.04
			10-17-67	1.43
			8- 9-68	1.64
			8-20-68	.94
			9-19-68	.97
			9-25-68	.74
			8-27-69	2.04
			9-17-69	2.89
56	Mill Brook (tributary to Green River) near Bernardston, Mass.----------	--	7- 7-69	1.18
			7-16-69	*.94
			8-27-69	1.04
			9-17-69	1.36
57	Mill Brook (tributary to Green River) near Greenfield, Mass.----------	4.38	10-17-67	.38
			8- 8-68	.62
			8-20-68	.40
			9-20-68	.16
			9-25-68	.14
			7- 7-69	1.15
			7-16-69	*.71
			8-27-69	1.79

* Not a base-flow measurement.

Table 4.--Monthly chemical analyses of streams

Date	Discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (residue at 180°C)	Dissolved solids (sum of constituents)	Hardness (Ca, Mg)	Noncarbonate hardness	Specific conductance (micromhos)	pH	Color	Temperature (°C)
21. Deerfield River at Charlemont, Mass.																						
4-26-67	1780	3.4	0.07	0.08	3.2	0.3	2.5	0.3	4	0	9.3	4.2	0.2	0.5	25	--	9	6	43	6.2	9	9
5-24-67	1200	3.4	.08	.05	3.1	.6	2.6	.5	4	0	8.7	3.0	.1	.7	37	--	10	7	42	6.2	4	14
6-27-67	1240	3.6	.14	.08	4.4	.5	2.0	.5	6	0	8.8	3.1	1.0	.3	33	--	13	8	69	6.4	4	21
7-31-67	1040	3.6	.15	.07	3.3	.4	2.2	.4	6	0	6.7	3.8	.1	.3	27	--	10	4	41	6.1	11	23
8-24-67	90	3.7	.14	.02	4.3	.9	2.9	.5	10	0	7.9	5.0	.1	.3	32	--	14	6	52	6.7	4	20
9-27-67	339	3.5	.00	.08	3.3	.6	2.7	.6	5	0	7.9	5.2	.2	1.3	31	--	10	6	47	6.1	5	18
10-31-67	140	4.2	.15	.06	4.1	.9	2.4	.6	8	0	8.7	4.7	.1	.4	35	30	14	7	48	6.8	5	9
11-29-67	1050	3.8	.24	.10	3.1	.6	2.7	.6	6	0	9.3	5.1	.1	.5	29	29	10	5	45	6.3	5	5
12-26-67	1150	4.0	.40	.06	3.3	.7	2.4	.5	5	0	7.5	5.3	.1	.6	26	27	11	7	42	6.4	5	4
1-24-68	1050	4.1	.17	.02	3.5	.7	2.4	.5	6	0	8.0	4.3	.1	.8	29	27	12	6	42	6.3	5	2
2-26-68	714	4.3	.23	.08	3.5	.8	2.9	.6	8	0	8.0	3.9	.1	.9	30	29	12	5	43	6.5	12	6
3-20-68	2550	3.8	.49	.07	3.3	.6	3.2	.7	6	0	7.8	5.0	.1	.3	36	28	10	6	47	6.4	3	5
4-26-68	1860	3.5	.44	.12	3.7	.5	2.5	.8	6	0	8.8	4.0	.1	.3	28	27	11	6	41	6.1	14	7
5-28-68	1050	3.6	.17	.01	3.3	.6	2.4	.6	5	0	6.7	4.0	.1	.9	30	25	10	6	42	6.2	3	13
38. North River at Shattuckville, Mass.																						
4-26-67	394	5.1	.04	.05	8.0	.6	4.1	.7	21	0	7.6	5.8	.1	.2	52	--	22	6	76	7.2	8	9
5-24-67	143	5.3	.09	.02	9.6	1.0	12	1.9	43	0	12	5.4	.1	.1	81	--	28	0	118	7.0	6	14
6-27-67	171	5.3	.14	.09	10	.9	6.0	1.0	30	0	12	5.2	.2	.1	60	--	28	4	90	6.9	8	18
7-31-67	79	5.8	.09	.03	13	1.1	4.7	2.3	40	0	9.1	6.9	.1	.2	65	--	37	4	106	6.6	10	22
8-24-67	35	12	.31	.04	12	1.3	56	2.8	169	0	14	8.1	.2	.3	187	--	36	0	313	7.6	40	17
9-27-67	20	5.8	.18	.08	14	1.6	48	3.5	135	0	15	13	.3	.1	168	--	42	0	299	7.5	12	17
10-31-67	76	6.4	.16	.06	8.8	1.2	24	1.6	76	0	11	9.0	.1	.1	112	99	27	0	171	7.7	8	4
11-29-67	103	6.1	.16	.06	9.4	1.1	15	2.1	48	0	13	9.3	.2	.1	80	80	28	0	139	7.1	9	1
12-26-67	173	5.9	.06	.00	9.0	1.1	3.2	1.4	21	0	13	6.9	.1	.2	50	51	27	10	84	6.7	2	1
1-23-68	84	6.7	.15	.03	11	1.2	9.0	2.4	41	0	11	6.9	.1	.0	62	68	32	0	114	6.8	5	1
2-26-68	56	6.6	.12	.06	11	1.4	6.0	2.4	36	0	10	8.0	.1	.1	65	64	34	4	110	6.7	1	1
3-20-68	1160	4.2	1.4	.06	5.5	.7	2.4	.8	14	0	8.2	3.7	.1	.2	44	33	16	5	56	6.9	5	4
4-26-68	474	4.7	.07	.06	6.6	.8	2.8	1.0	16	0	10	4.5	.1	.1	41	38	20	6	63	6.6	16	7
5-28-68	97	4.8	.09	.01	11	1.2	6.7	1.5	30	0	12	7.0	.2	.1	58	60	32	8	110	7.0	4	12
45. South River near Conway, Mass.																						
4-26-67	87	5.8	.03	.04	14	.7	3.6	.9	32	0	11	7.6	.1	1.0	73	--	38	12	103	7.3	5	11
5-24-67	38	5.5	.06	.03	15	1.1	3.9	1.1	39	0	11	8.0	.1	.5	72	--	42	10	116	7.0	3	15
6-27-67	41	6.7	.15	.12	19	1.2	4.5	1.4	52	0	11	9.0	.2	1.2	80	--	52	10	133	6.9	4	20
7-31-67	17	6.2	.05	.02	22	1.3	5.0	1.7	56	0	9.7	11	.1	.7	84	--	60	14	150	7.0	6	24
8-24-67	8.0	5.6	.12	.02	21	1.6	5.6	2.0	61	0	10	12	.1	.5	100	--	59	9	169	7.3	4	16
9-27-67	5.3	4.6	.08	.08	22	1.6	5.9	2.2	62	0	12	13	.2	.3	95	--	62	10	169	7.0	3	14
10-31-67	17	7.2	.02	.06	21	1.6	4.5	1.7	51	0	15	11	.2	.8	101	88	59	17	149	7.4	4	3
11-29-67	18	6.6	.11	.06	18	1.3	4.8	1.4	44	0	14	10	.1	1.9	76	80	50	14	140	7.2	3	0
12-26-67	36	6.6	.10	.00	15	1.1	3.8	1.1	36	0	12	8.9	.1	.9	70	68	42	12	113	6.9	0	0
1-23-68	24	7.0	.08	.03	17	1.2	3.7	1.1	41	0	11	8.5	.0	1.1	68	71	48	14	121	6.9	3	0
2-26-68	15	6.9	.34	.05	18	1.4	5.6	1.2	49	0	12	10	.1	1.6	81	81	51	11	132	7.0	1	0
3-20-68	280	4.7	1.1	.02	10	.9	2.7	1.4	24	0	8.6	6.2	.1	.8	60	47	28	9	81	7.0	4	4
4-26-68	89	5.9	.02	.07	14	1.0	3.8	1.0	32	0	11	8.0	.1	2.2	67	63	39	13	106	6.9	9	9
5-28-68	25	5.2	.06	.01	18	1.2	4.6	1.3	42	0	10	8.4	.1	.3	74	70	50	16	128	7.2	3	14
46. Deerfield River near West Deerfield, Mass.																						
4-26-67	2100	4.3	.05	.04	6.3	.4	2.9	.4	14	0	10	4.4	.1	.6	47	--	17	6	61	7.0	7	7
5-24-67	1720	3.9	.15	.05	5.3	.8	3.1	.7	12	0	9.5	4.4	.1	.2	42	--	16	6	57	6.6	7	15
6-27-67	1160	4.7	.13	.21	7.9	.8	2.7	.7	19	0	10	3.9	.2	.3	42	--	22	7	66	6.6	5	21
7-31-67	1390	3.8	.18	.07	7.1	.8	3.4	.7	20	0	8.1	5.1	.1	.6	46	--	20	4	68	6.6	11	23
8-24-67	985	3.4	.04	.06	5.6	.8	4.0	.7	17	0	7.9	5.3	.1	.2	41	--	17	3	63	6.7	7	21
9-27-67	1000	3.5	.21	.09	4.6	.7	3.1	.7	11	0	7.9	5.7	.2	1.6	36	--	14	6	59	6.5	0	14
10-31-67	342	4.8	.29	.09	6.2	1.1	2.5	1.0	14	0	9.3	5.2	.1	1.7	48	39	20	8	64	6.8	3	5
11-29-67	1030	4.2	.11	.07	5.8	.7	3.3	.7	12	0	7.9	5.5	.1	.4	42	39	18	8	59	6.6	5	3
12-26-67	1270	5.1	.11	.00	6.6	.9	2.4	.8	12	0	9.7	5.5	.1	.5	43	38	20	10	64	6.7	3	1
1-23-68	1500	4.3	.20	.05	5.0	.8	2.9	.6	10	0	8.2	5.0	.0	1.0	34	33	16	8	54	6.6	4	4
2-26-68	1050	4.8	.24	.07	5.8	1.0	6.2	.7	20	0	9.0	5.0	.1	.9	47	43	18	2	71	6.7	9	1
3-20-68	3790	4.1	.57	.09	5.3	.8	2.5	.8	10	0	8.6	4.8	.1	.8	39	33	16	8	55	6.8	2	4
4-26-68	3050	4.0	.01	.08	4.8	.7	2.8	.8	12	0	9.0	4.0	.1	.2	37	32	15	5	54	6.5	17	8
5-28-68	1720	3.8	.20	.03	5.2	.8	2.9	.8	10	0	7.5	4.0	.1	1.1	34	31	16	8	55	6.7	3	15
50. Green River near Colrain, Mass.																						
11-29-67	54	5.8	.09	.05	13	1.3	1.7	.7	34	0	11	4.0	.1	.4	56	55	38	10	92	7.4	5	0
12-26-67	98	5.6	.05	.03	12	1.2	1.7	.7	32	0	9.7	3.5	.1	.3	49	51	35	9	85	7.3	1	--
1-24-68	56	6.1	.11	.01	14	1.4	1.5	.7	39	0	11	2.7	.0	.4	58	57	41	9	96	7.3	2	1
2-26-68	62	6.1	.04	.05	16	1.6	1.8	.7	42	0	11	3.0	.1	.4	70	62	46	12	105	7.2	1	0
3-20-68	--	4.3	.49	.03	7.0	.8	1.5	.7	18	0	8.2	2.8	.1	.2	44	34	20	6	61	7.1	2	4
4-26-68	258	4.8	.13	.05	8.9	.9	1.5	.8	20	0	10	2.4	.1	.1	43	39	26	9	64	6.9	9	7
5-28-68	47	5.1	.05	.01	14	1.3	1.8	.9	40	0	11	1.8	.1	.1	50	56	40	8	96	7.2	2	12
7-10-68	40	5.6	.06	.00	17	1.5	1.7	.9	51	0	10	2.2	.0	.0	75	64	48	6	113	7.0	6	19
7-26-68	22	5.8	.05	.00	19	1.6	1.8	1.2	58	0	9.2	2.2	.0	.0	74	69	54	6	121	7.0	6	20
9-06-68	5.2	5.4	.00	.10	20	1.7	2.0	1.4	62	0	10	2.1	.1	.0	73	73	57	6	128	7.2	4	15
10-23-68	11	6.3	.06	.04	18	1.7	2.1	1.3	54	0	11	6.0	.0	.0	72	72	52	8	120	7.5	2	10
11-22-68	58	5.8	.03	0	17	1.6	2.0	.9	39	0	12	4.0	.0	.3	63	63	49	17	104	7.3	3	2

Table 5.--Minor element chemical analyses of streams

August 13, 1969

Discharge (cfs)	Specific conductance (micromhos)	µg/l									
		Aluminum (Al)	Arsenic (As)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Iron (Fe)	Lithium (Li)	Manganese (Mn)	Strontium (Sr)	Zinc (Zn)
		21. Deerfield River at Charlemont, Mass.									
1,070	38	100	0	0	0	10	80	0	30	0	30
		38. North River at Shattuckville, Mass.									
117	97	0	0	0	0	0	50	0	0	0	0
		45. South River near Conway, Mass.									
22	141	0	0	0	0	0	20	0	0	40	0
		46. Deerfield River near West Deerfield, Mass.									
1,190	79	100	0	0	0	0	60	0	40	60	0
		50. Green River near Colrain, Mass.									
69	93	0	0	0	0	0	60	0	0	0	0

Table 6.--Miscellaneous chemical analyses of streams

Map reference no. (Plate 1)	Station name	Date	Time	Specific conductance (micromhos)	Dissolved oxygen (mg/l)	Temperature (°C)	pH
1	Deerfield River diversion canal at Monroe Bridge, Mass.	8-21-68	1610	43	7.7	21	6.3
2	Dunbar Brook near Monroe Bridge, Mass.	8-21-68	1630	36	7.8	19	6.6
3	Deerfield River near Hoosac Tunnel, Mass.	8-21-68	1310	83	7.8	23	7.6
4	Fife Brook near Hoosac Tunnel, Mass.	8-21-68	1515	31	9.5	15	6.5
5	Deerfield River at Zoar, Mass.	8-22-68	1300	43	8.9	22	7.0
6	Potter Brook near Rowe, Mass.	8-21-68	1430	65	8.6	16	7.5
7	Pelham Brook at Rowe, Mass.	8-21-68	1410	65	7.7	20	7.1
8	Pelham Brook at Zoar, Mass.	8-21-68	1350	58	8.8	19	7.3
9	Cold River at Florida, Mass.	8-21-68	1720	95	7.5	20	7.3
10	Black Brook near Drury, Mass.	8-21-68	1725	46	8.8	17	7.5
11	Cold River near Zoar, Mass.	8-21-68	1750	73	7.2	22	7.6
12	Chickley River at West Hawley, Mass.	8-22-68	1020	43	9.3	15	6.8
13	King Brook at West Hawley, Mass.	8-22-68	1045	48	8.9	15	6.8
14	Mill Brook (tributary to Chickley River) near West Hawley, Mass.	8-22-68	1125	93	9.2	16	7.5
15	Chickley River near Charlemont, Mass.	8-22-68	1140	64	9.3	19	7.6
16	Legate Hill Brook near Charlemont, Mass.	8-21-68	1315	63	8.6	20	7.5
17	Deerfield River below Legate Hill Brook, at Charlemont, Mass.	8-22-68	1345	46	8.5	22	6.9
18	Bozrah Brook at Charlemont, Mass.	8-22-68	1200	90	7.9	19	7.0
19	Mill Brook (tributary to Deerfield River) near Charlemont, Mass.	8-21-68	1220	96	9.6	16	7.5
20	Maxwell Brook near Charlemont, Mass.	8-21-68	1205	76	9.3	16	7.7
22	Deerfield River near Charlemont, Mass.	8-22-68	1425	48	8.6	22	7.3
23	Avery Brook near Charlemont, Mass.	8-21-68	1130	78	9.6	16	7.7
24	Clesson Brook near Buckland, Mass.	8-21-68	1015	75	8.9	16	7.7
25	Upper Branch Clesson Brook near Buckland, Mass.	8-21-68	1035	157	7.4	15	7.6
26	Clesson Brook near Shelburne Falls, Mass.	8-21-68	1100	130	9.2	18	7.8
27	Clark Brook near Shelburne Falls, Mass.	8-21-68	1110	95	9.0	17	7.8
28	East Branch North River below Vermont State line, near Colrain, Mass.	8-20-68	1240	100	9.3	19	8.2
29	East Branch North River near Colrain, Mass.	8-20-68	1215	112	9.3	19	8.3
30	East Branch North River at Colrain, Mass.	8-20-68	1155	136	8.2	18	7.6
31	East Branch North River at Lyonsville, Mass.	8-20-68	1140	132	9.5	19	8.6
32	Foundry Brook at Lyonsville, Mass.	8-20-68	1125	165	9.2	17	8.0
33	East Branch North River at Griswoldville, Mass.	8-20-68	1110	134	10.0	19	8.6
34	West Branch Brook at North Heath, Mass.	8-20-68	1045	56	9.5	16	7.0
		8-21-68	1235	45	9.0	20	7.4
35	Sanders Brook near North Heath, Mass.	8-20-68	1025	51	9.1	15	7.2
36	Taylor Brook near Lyonsville, Mass.	8-20-68	1005	81	9.4	17	7.8
37	West Branch North River at Lyonsville, Mass.	8-20-68	0950	86	9.6	17	7.8
38	North River at Shattuckville, Mass.	8-20-68	0930	335	7.4	19	10.2
39	Deerfield River at Shelburne Falls, Mass.	8-22-68	1445	63	8.3	21	7.3
40	Deerfield River near Shelburne, Mass.	8-22-68	1530	57	6.9	22	7.3
41	Bear River near Conway, Mass.	8-20-68	1800	138	7.7	21	8.1
42	Dragon Brook at Shelburne, Mass.	8-20-68	1840	250	7.5	20	7.6
43	Creamery Brook at South Ashfield, Mass.	8-20-68	1710	138	7.7	18	7.8
44	Poland Brook near Conway, Mass.	8-20-68	1730	95	8.0	20	7.8
45	South River near Conway, Mass.	8-20-68	1815	170	7.6	22	8.6
47	Deerfield River at West Deerfield, Mass.	8-22-68	1620	61	8.7	22	7.3
48	Green River near Leyden, Mass.	8-20-68	1330	116	9.6	19	8.4
49	Borden Brook near Leyden, Mass.	8-20-68	1220	155	9.2	16	7.9
50	Green River near Colrain, Mass.	8-20-68	1345	126	8.7	20	8.4
51	Stafford Brook near Colrain, Mass.	8-20-68	1430	190	9.0	17	8.2
52	Green River near Greenfield, Mass.	8-20-68	1410	140	7.5	22	8.2
53	Green River at Greenfield water supply dam, near Greenfield, Mass.	8-20-68	1445	140	8.3	20	8.2
54	Glen Brook near Leyden, Mass.	8-20-68	1500	195	7.1	21	8.2
55	Punch Brook near Greenfield, Mass.	8-20-68	1540	220	7.7	17	7.0
57	Mill Brook (tributary to Green River) near Greenfield, Mass.	8-20-68	1520	138	7.5	15	6.4
58	Green River below Mill Brook, near Greenfield, Mass.	8-20-68	1555	160	7.7	22	8.0
59	Green River at Greenfield, Mass.	8-20-68	1615	165	7.6	23	8.2
60	Deerfield River near Greenfield, Mass.	8-22-68	1655	68	--	23	7.4

Table 7.--Instantaneous suspended-sediment concentrations of streams

Date	Time	Discharge (cfs)	Concentration (mg/l)	Suspended sediment discharge (tons/day)	Date	Time	Discharge (cfs)	Concentration (mg/l)	Suspended sediment discharge (tons/day)
			21. Deerfield River at Charlemont, Mass.						
APR 26, 1967	1830	1,780	5	20	MAR 19, 1968	1315	2,480	16	107
MAY 24.....	1650	1,200	1	3	MAR 20.....	0900	2,140	5	29
JUN 27.....	1415	1,240	14	47	MAR 20.....	1645	2,550	13	90
MAR 18, 1968	1415	2,570	52	361	MAR 27.....	1335	1,760	19	90
MAR 18.....	1845	3,050	90	741	MAR 24, 1969	2300	1,250	8	27
MAR 19.....	0845	2,790	12	90					
			38. North River at Shattuckville, Mass.						
APR 26, 1967	1800	394	2	2	MAR 27, 1968	1405	474	25	32
MAY 24.....	1530	143	4	2	MAR 24, 1969	2230	225	24	15
JUN 27.....	1330	171	6	3	MAR 25.....	1120	512	78	108
MAR 18, 1968	1515	980	216	572	MAR 25.....	1545	768	101	209
MAR 18.....	1810	1,840	195	969	MAR 26.....	1345	691	30	56
MAR 19.....	1145	1,500	153	620	MAR 28.....	0945	332	19	17
MAR 19.....	1620	1,500	173	701	APR 10.....	1810	2,370	292	1,870
MAR 20.....	1145	899	14	34	APR 11.....	1115	1,520	79	324
MAR 20.....	1610	1,160	80	251	APR 24.....	1110	1,290	79	275
MAR 20.....	2100	1,450	92	360					
			45. South River near Conway, Mass.						
APR 26, 1967	1645	87	8	2	MAR 24, 1969	2115	67	27	4.9
MAY 24.....	1445	38	2	Trace	MAR 25.....	0845	180	214	104
JUN 27.....	1245	41	6	.7	MAR 25.....	1205	399	469	505
MAR 18, 1968	1600	647	314	549	MAR 25.....	1445	480	390	505
MAR 19.....	0945	340	150	138	MAR 25.....	2200	304	158	130
MAR 19.....	1500	354	162	155	MAR 26.....	1410	176	38	18
MAR 20.....	1000	191	43	22	MAR 28.....	1015	85	13	3.0
MAR 20.....	1435	280	98	74	APR 10.....	1730	390	184	194
MAR 27.....	1655	157	402	170					
			46. Deerfield River near West Deerfield, Mass.						
APR 26, 1967	1715	2,100	3	20	MAR 19, 1968	1430	5,070	39	534
MAY 24.....	1400	1,720	2	9	MAR 20.....	1030	3,830	6	62
JUN 27.....	1200	1,160	6	20	MAR 20.....	1400	3,790	7	72
MAR 18, 1968	1330	5,730	142	2,200	MAR 27.....	1625	2,890	32	250
MAR 18.....	1645	5,990	132	2,130					
			50. Green River near Colrain, Mass.						
MAR 18, 1968	1450	--	107	--	MAR 25, 1969	1000	195	91	48
MAR 18.....	1745	--	93	--	MAR 25.....	1350	340	47	43
MAR 19.....	1115	--	101	--	MAR 25.....	1615	360	59	57
MAR 19.....	1545	--	66	--	MAR 26.....	1500	281	25	19
MAR 20.....	1120	--	12	--	MAR 28.....	0915	148	1	.40
MAR 20.....	1530	--	21	--	APR 10.....	1830	820	266	589
MAR 27.....	1500	--	28	--	APR 11.....	1040	523	34	48
MAR 24, 1969	2200	98	7	1.9					

TABLE 8.--CHEMICAL ANALYSES OF GROUND WATER

LOCAL	NUMBER	DATE OF SAMPLE	TEMPERATURE (DEG C)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)
						ASHFIELD							
ANW	15	11-21-68	9.0	8.9	10	0	30	2.5	2.9	1.8	91	0	13
ANW	28	11-21-68	12.0	12	100	0	29	2.0	5.0	1.3	84	0	17
						BUCKLAND							
B3W	3	11-21-68	10.0	15	50	0	12	3.2	4.4	1.3	44	0	6.1
B3W	9	08-04-67	13.0	11	610	90	20	1.6	2.2	2.7	60	0	11
B3W	15	11-21-68	11.0	17	500	60	9.2	3.4	4.2	2.1	40	0	16
						CHARLEMONT							
CEW	12	08-07-67	12.0	6.6	30	10	10	1.6	2.3	1.5	16	0	13
CEW	23	11-21-68	10.0	15	40	0	15	2.2	6.5	.8	54	0	17
CEW	39	12-03-68	9.0	9.2	13000	1400	16	3.3	2.1	.8	67	0	6.9
CEW	40	11-21-68	14.0	9.8	30	0	24	9.3	7.8	3.2	28	0	28
						COLRAIN							
CSW	9	02-23-50	--	--	140	0	--	--	--	--	44	--	--
CSW	10	11-26-68	10.0	12	100	0	25	2.1	3.8	1.9	65	0	13
CSW	12	01-17-49	--	--	30	--	--	--	--	--	68	--	--
CSW	13	01-04-49	--	--	80	--	--	--	--	--	28	--	--
CSW	14	05-18-53	--	--	0	--	--	--	--	--	120	--	--
CSW	14	12-03-68	10.0	9.9	0	0	80	3.3	5.0	4.5	196	0	32
CSW	24	04-06-54	--	--	30	--	--	--	--	--	88	--	--
						CONWAY							
CWW	178	12-04-68	10.0	8.0	10	0	26	1.0	1.8	1.5	71	0	13
CWW	183	10-08-40	10.0	--	400	--	--	--	--	--	86	--	--
CWW	184	12-04-68	10.0	9.5	30	0	38	2.1	3.6	2.7	113	0	17
						DEERFIELD							
DFW	33	11-21-68	11.0	14	260	20	24	6.2	14	3.6	66	0	25
DFW	42	04-10-64	10.5	6.8	--	--	1.8	.6	410	3.1	755	79	125
DFW	49	11-21-68	11.0	15	30	0	38	15	7.4	.4	146	0	48
DFW	50	11-21-68	10.0	.4	80	0	18	3.2	6.1	.8	13	0	.2
DFW	51	12-03-68	11.0	10	30	10	26	10	8.9	3.2	62	0	18
DFW	55	11-26-68	10.5	11	470	10	18	2.6	3.0	.9	21	0	20
						FLORIDA							
FUW	19	12-10-68	10.0	9.4	50	20	25	4.6	2.8	2.5	90	0	9.2
						GREENFIELD							
GRW	16	07-22-52	--	--	300	--	--	--	--	--	114	--	--
GRW	17	12-05-68	12.0	6.2	80	180	42	2.3	128	2.3	85	0	20
GRW	19	06-07-56	--	--	70	--	--	--	--	--	--	--	--
GRW	19	11-05-56	--	--	70	--	--	--	--	--	--	--	--
GRW	19	06-11-57	--	--	100	--	--	--	--	--	--	--	--
GRW	19	02-11-58	--	--	100	110	--	--	--	--	--	--	--
GRW	19	06-11-58	--	--	70	50	--	--	--	--	--	--	--
GRW	19	10-30-58	--	--	70	40	--	--	--	--	--	--	--
GRW	19	02-17-59	--	--	70	40	--	--	--	--	--	--	--
GRW	19	06-20-59	--	--	80	130	--	--	--	--	--	--	--
GRW	19	10-17-60	--	--	130	0	--	--	--	--	--	--	--
GRW	19	02-23-61	--	--	30	0	--	--	--	--	--	--	--
GRW	19	06-16-61	--	--	50	0	--	--	--	--	--	--	--
GRW	19	10-06-61	--	--	100	60	--	--	--	--	--	--	--
GRW	19	03-01-62	--	--	100	30	--	--	--	--	--	--	--
GRW	19	06-14-62	--	--	100	0	--	--	--	--	--	--	--
GRW	19	10-16-62	--	--	200	0	--	--	--	--	--	--	--
GRW	19	03-26-63	--	--	150	240	--	--	--	--	--	--	--
GRW	19	06-10-63	--	--	300	140	--	--	--	--	--	--	--
GRW	19	10-02-63	--	--	150	40	--	--	--	--	--	--	--
GRW	19	02-06-64	--	--	80	60	--	--	--	--	--	--	--
GRW	19	04-29-64	--	--	180	140	--	--	--	--	--	--	--
GRW	19	06-08-64	--	--	120	0	--	--	--	--	--	--	--
GRW	19	09-11-64	--	--	80	40	--	--	--	--	--	--	--
GRW	19	01-26-65	--	--	160	40	--	--	--	--	--	--	--
GRW	19	11-21-68	10.0	10	80	80	9.0	4.3	5.6	.7	21	0	21
GRW	37	09-13-66	--	--	50	360	--	--	--	--	--	--	--
GRW	37	09-24-66	--	--	200	210	--	--	--	--	--	--	--
GRW	39	09-14-66	--	--	60	240	--	--	--	--	--	--	--
GRW	44	09-28-66	--	--	210	140	--	--	--	--	--	--	--
GRW	46	09-22-66	--	--	1060	90	--	--	--	--	--	--	--

TABLE 8.--CHEMICAL ANALYSES OF GROUND WATER--CONTINUED

LOCAL	NUMBER	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH	COLOR	SOURCE OF DATA[1]
						ASHFIELD							
ANW	15	6.9	0.1	2.4	122	114	85	10	--	200	7.7	2	1
ANW	28	3.7	.2	.0	117	111	80	12	--	183	7.6	2	1
						BUCKLAND							
B3W	3	4.0	.1	9.2	88	77	43	7	--	115	7.2	5	1
B3W	9	2.8	.2	.0	94	82	56	8	--	131	7.4	30	1
B3W	15	1.1	.1	.1	73	73	37	4	--	104	7.5	33	1
						CHARLEMONT							
CEW	12	6.1	.1	5.0	60	54	32	18	--	88	6.4	3	1
CEW	23	2.0	.2	.0	95	85	46	2	--	129	7.4	1	1
CEW	39	1.1	.1	.1	75	73	54	0	--	122	7.1	2	1
CEW	40	10	.1	68	181	174	98	75	--	286	7.1	2	1
						COLRAIN							
CSW	9	3.4	--	1.4	--	--	38	--	--	--	6.7	2	3
CSW	10	12	.1	.6	100	102	71	18	--	173	7.4	0	1
CSW	12	10	--	6.0	--	--	63	--	--	--	6.9	1	3
CSW	13	19	--	.4	--	--	38	--	--	--	6.1	4	3
CSW	14	2.0	--	1.0	--	--	136	--	--	--	7.7	0	3
CSW	14	12	.0	16	263	259	213	52	--	433	8.0	0	1
CSW	24	2.4	--	.0	--	--	104	--	--	--	7.8	2	3
						CONWAY							
CWW	178	4.0	.0	.0	96	90	69	11	--	154	7.5	2	1
CWW	183	1.9	--	.0	--	--	79	--	--	--	7.6	0	3
CWW	184	5.1	.1	.1	136	134	104	11	--	231	7.6	3	1
						DEERFIELD							
DFW	33	33	.1	1.0	160	153	86	32	--	272	7.1	2	1
DFW	42	5.5	6.3	.2	1050	--	7	0	--	1630	9.2	5	1
DFW	49	5.0	.1	.7	211	202	157	37	--	337	7.5	3	1
DFW	50	46	.2	.1	114	81	58	48	--	184	6.8	2	1
DFW	51	28	.1	30	183	164	106	55	--	299	7.1	3	1
DFW	55	9.1	.0	19	94	94	56	38	--	149	6.8	2	1
						FLORIDA							
FUW	19	8.2	.0	.0	107	106	82	8	--	185	7.6	2	1
						GREENFIELD							
GRW	16	3.2	--	.1	--	--	51	--	--	--	7.9	27	3
GRW	17	225	.1	2.2	492	470	114	45	--	912	7.2	1	1
GRW	19	2.6	--	.1	--	--	38	--	20	--	6.2	0	3
GRW	19	3.6	--	--	--	--	30	--	17	--	6.5	2	3
GRW	19	2.8	--	.2	--	--	32	--	16	--	6.3	2	3
GRW	19	3.8	--	.3	--	--	33	--	16	--	6.3	2	3
GRW	19	3.0	--	--	--	--	34	--	13	--	6.2	4	3
GRW	19	4.4	--	--	--	--	33	--	14	--	6.2	2	3
GRW	19	4.0	--	.1	--	--	36	--	15	--	6.3	0	3
GRW	19	5.0	--	--	--	--	38	--	14	--	6.5	2	3
GRW	19	4.0	--	.3	--	--	38	--	14	--	6.3	0	3
GRW	19	2.5	--	--	--	--	38	--	13	--	6.4	5	3
GRW	19	4.5	--	--	--	--	48	--	13	--	6.3	10	3
GRW	19	5.0	--	.3	--	--	40	--	13	--	6.2	5	3
GRW	19	--	--	.1	--	--	42	--	12	--	6.2	10	3
GRW	19	7.0	--	.3	--	--	42	--	13	--	7.0	10	3
GRW	19	4.0	--	.2	--	--	56	--	20	--	6.4	5	3
GRW	19	10	--	.1	--	--	46	--	8	--	6.3	5	3
GRW	19	14	--	.2	--	--	56	--	15	--	6.6	10	3
GRW	19	7.0	--	.4	--	--	60	--	15	--	6.4	5	3
GRW	19	10	--	.3	--	--	56	--	13	--	6.4	5	3
GRW	19	10	--	.5	--	--	66	--	22	--	6.0	5	3
GRW	19	10	--	.4	--	--	52	--	17	--	6.7	20	3
GRW	19	6.0	--	.1	--	--	54	--	18	--	6.7	12	3
GRW	19	8.5	--	.3	--	--	52	--	18	--	6.4	5	3
GRW	19	8.1	.1	1.6	74	70	40	23	--	120	7.0	1	1
GRW	37	3.0	--	.1	--	--	108	--	90	--	8.0	5	3
GRW	37	2.6	--	.1	--	--	110	--	88	--	8.0	2	3
GRW	39	2.8	--	.1	--	--	104	--	94	--	8.2	5	3
GRW	44	2.4	--	.1	--	--	88	--	76	--	8.2	3	3
GRW	46	1.5	--	.1	--	--	94	--	90	--	8.2	3	3

[1]1, U.S. GEOLOGICAL SURVEY LABORATORY ANALYSIS; 3, MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH LABORATORY ANALYSIS.

TABLE 8.--CHEMICAL ANALYSES OF GROUND WATER

LOCAL	NUMBER	DATE OF SAMPLE	TEMPERATURE (DEG C)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)
						GREENFIELD--CONTINUED							
GRW	48	09-24-66	--	--	640	30	--	--	--	--	--	--	--
GRW	49	09-28-66	--	--	230	130	--	--	--	--	--	--	--
GRW	50	09-29-66	--	--	140	60	--	--	--	--	--	--	--
GRW	53	09-29-66	--	--	140	60	--	--	--	--	--	--	--
GRW	54	11-21-68	10	8.0	40	10	8.5	3.6	5.9	.8	19	0	14
GRW	55	11-26-68	9.5	7.9	60	10	44	5.1	4.2	1.5	150	0	24
GRW	57	06-29-67	--	--	540	40	--	--	--	--	--	--	--
GRW	58	06-29-67	--	--	40	100	--	--	--	--	--	--	--
GRW	59	06-29-67	--	--	570	120	--	--	--	--	--	--	--
GRW	60	06-29-67	--	--	160	80	--	--	--	--	--	--	--
GRW	61	06-29-67	--	--	300	0	--	--	--	--	--	--	--
GRW	65	07-24-67	--	--	200	120	--	--	--	--	--	--	--
GRW	65	08-01-67	--	--	80	200	--	--	--	--	--	--	--
						HAWLEY							
HMW	6	12-11-68	6.0	9.2	40	0	37	3.3	4.6	4.9	126	0	13
						HEATH							
HNW	9	12-12-68	9.0	6.2	70	0	15	1.8	6.6	3.0	23	0	12
HNW	12	11-20-68	10.0	10	60	10	11	1.9	2.9	.7	24	0	8.8
						LEYDEN							
LUW	3	04-21-54	--	--	120	--	--	--	--	--	18	--	--
LUW	4	03-11-42	--	--	180	--	--	--	--	--	49	--	--
LUW	6	12-07-48	--	--	1600	--	--	--	--	--	84	--	--
LUW	12	12-12-68	10.0	12	30	40	96	14	9.6	3.8	22	0	11
						MONROE							
M3W	1	11-10-55	--	--	3200	--	--	--	--	--	38	--	--
M3W	2	12-10-68	5.0	3.8	80	10	9.1	1.7	1.1	.8	27	0	9.2
M3W	3	12-10-68	8.0	13	1100	2000	74	3.8	6.5	12	214	0	26
						ROWE							
ROW	12	09-29-66	--	--	200	30	--	--	--	--	52	--	--
ROW	13	10-13-66	--	--	--	--	--	--	--	--	--	--	--
ROW	15	12-05-68	10.0	9.9	130	0	8.8	2.2	3.4	3.4	22	0	16
ROW	31	11-22-68	11.0	16	20	30	21	7.3	6.0	4.1	69	0	11
						SAVOY							
SFW	6	02-01-62	--	--	120	--	--	--	--	--	8	--	--
						SHELBURNE							
SKW	12	03-18-41	--	--	30	--	--	--	--	--	61	--	--
SKW	16	08-26-46	--	--	10	--	--	--	--	--	90	--	--
SKW	18	11-05-45	--	--	50	--	--	--	--	--	206	--	--
SKW	19	10-26-65	--	--	280	130	--	--	--	--	112	--	--
SKW	32	09-01-48	--	--	200	--	--	--	--	--	88	--	--
SKW	34	12-03-68	11.0	9.6	80	20	31	2.4	6.5	2.4	98	0	22

TABLE 8.--CHEMICAL ANALYSES OF GROUND WATER--CONTINUED

LOCAL	NUMBER	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH	COLOR	SOURCE OF DATA[1]
						GREENFIELD--CONTINUED							
GRW	48	2.0	--	0.2	--	--	94	--	90	--	7.8	14	3
GRW	49	2.6	--	.3	--	--	74	--	68	--	8.1	3	3
GRW	50	2.6	--	.2	--	--	72	--	104	--	8.2	4	3
GRW	53	2.6	--	.2	--	--	72	--	104	--	8.2	4	3
GRW	54	14	.0	1.6	76	66	36	20	--	114	6.9	2	1
GRW	55	3.0	.0	.0	169	164	131	8	--	294	8.0	2	1
GRW	57	--	--	.0	--	--	140	--	82	--	7.9	4	3
GRW	58	2.6	--	.0	--	--	100	--	90	--	8.1	3	3
GRW	59	3.2	--	.0	--	--	100	--	94	--	8.2	3	3
GRW	60	4.0	--	.0	--	--	102	--	92	--	8.2	3	3
GRW	61	7.2	--	.0	--	--	126	--	122	--	8.0	4	3
GRW	65	3.0	--	.2	--	--	100	--	88	--	8.0	4	3
GRW	65	3.0	--	.0	--	--	90	--	86	--	7.8	3	3
						HAWLEY							
HMW	6	3.5	.1	5.1	141	143	106	3	--	246	7.8	3	1
						HEATH							
HNW	9	6.0	.1	26	93	88	45	26	--	145	7.0	3	1
HNW	12	6.8	.0	4.9	67	59	36	16	--	93	7.0	1	1
						LEYDEN							
LUW	3	2.2	--	.8	--	--	25	--	--	--	6.3	3	3
LUW	4	9.2	--	8.0	--	--	117	--	--	--	7.1	2	3
LUW	6	2.8	--	1.9	--	--	70	--	--	--	7.6	--	3
LUW	12	68	.0	280	501	506	297	279	--	736	6.9	2	1
						MONROE							
M3W	1	2.2	--	.0	--	--	48	--	--	--	7.5	4	3
M3W	2	.5	.0	2.0	48	41	30	8	--	71	7.1	15	1
M3W	3	20	.0	.8	258	261	200	24	--	450	7.5	3	1
						ROWE							
ROW	12	1.8	--	.2	--	--	62	--	--	--	7.3	10	3
ROW	13	--	--	--	--	--	--	--	--	--	--	--	3
ROW	15	6.0	.1	1.1	63	62	31	13	--	101	6.8	2	1
ROW	31	20	.1	4.7	131	124	82	26	--	209	7.1	1	1
						SAVOY							
SFW	6	19	--	.4	--	--	30	--	--	--	5.6	5	3
						SHELBURNE							
SKW	12	1.4	--	.1	--	--	67	--	--	--	7.1	0	3
SKW	16	3.2	--	1.8	--	--	88	--	--	--	7.3	2	3
SKW	18	8.2	--	15	--	--	194	--	--	--	7.4	2	3
SKW	19	2.2	--	.5	--	--	142	--	--	--	8.0	--	3
SKW	32	4.8	--	.2	--	--	64	--	--	--	6.7	8	3
SKW	34	4.1	.2	.0	135	126	88	7	--	212	7.8	0	1

[1] 1, U.S. GEOLOGICAL SURVEY LABORATORY ANALYSIS; 3, MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH LABORATORY ANALYSIS.

Table 9.--Chemical analyses of precipitation

(Analytical results in milligrams per liter except as indicated.)
(Analyses by U.S. Geological Survey.)

Station name and location	Date	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Phosphate (PO_4)	Ammonia Nitrogen (NH_4)	Specific Conductance (micromhos)	pH
Monroe, Massachusetts Lat 42°43'14", long 72°59'39" Franklin County, elev. 1770 ft At Monroe State Forestry Camp	5/ 1/68- 5/28/68	0.5	0.09	0.2	0.1	0.0	9.2	0.25	0.10	0.050	0.60	42	4.1
	5/28/68- 6/24/68	.2	.01	.1	.1	.0	4.8	.25	.05	.075	.25	32	4.2
	6/24/68- 8/22/68	1.3	.24	.3	.1	.0	7.2	.60	.05	.040	.15	28	4.5
	8/22/68- 9/26/68	.7	.17	.2	.1	.0	3.85	.50	.05	.040	.00	16	4.5
	9/26/68- 10/22/68	.8	.22	.2	.1	.0	3.25	.50	.00	.055	.20	13	5.2
Charlemont, Massachusetts Lat 42°37'33", long 72°51'20" Franklin County, elev. 540 ft At surface-water station no. 21	4/29/68- 5/28/68	.6	.06	.1	.3	.0	5.0	.25	.05	.070	.25	47	4.1
	5/28/68- 6/28/68	.1	.00	.2	.2	.0	3.45	.25	.05	.020	.25	36	4.1
	6/28/68- 8/21/68	.9	.11	.4	.2	.0	6.5	.60	.16	.083	.15	40	4.1
	8/21/68- 9/26/68	.5	.05	.3	1.7	.0	2.8	.80	.26	.065	.30	16	5.2
	9/26/68- 10/22/68	.5	.01	.1	.1	.0	2.35	.35	.05	.010	.10	14	4.55

TABLE 10. DESCRIPTION OF WELLS AND BORINGS

LOCAL WELL NUMBER: FOR EXPLANATION OF THE WELL- AND BORING-NUMBERING SYSTEM, SEE TEXT.

LOCATION: FOR EXPLANATION OF THE WELL- AND BORING-LOCATION SYSTEM, SEE TEXT.

ALTITUDE OF LAND-SURFACE DATUM: ALTITUDES ARE EXPRESSED IN FEET ABOVE MEAN SEA LEVEL.

METHOD DRILLED: A, AIR-ROTARY; B, BORED OR AUGERED; C, CABLE TOOL; D, DUG, H, HYDRAULIC-ROTARY; V, DRIVEN; W, DRIVE-WASH.

WELL FINISH: G, GRAVEL WALL (COMMERCIAL SCREEN); O, OPEN END; P, PERFORATED OR SLOTTED CASING; S, SCREEN; W, WALLED OR SHORED; X, OPEN HOLE IN AQUIFER (GENERALLY CASED TO BEDROCK).

DEPTH TO CONSOLIDATED ROCK: DEPTHS IN FEET BELOW LAND SURFACE AS MEASURED OR REPORTED.

LOG AVAILABLE: D, DRILLER'S LOG; G, GEOLOGIST'S LOG; "*" INDICATES LOG IS IN TABLE 11.

LOCAL WELL NUMBER		LOCATION	ALTITUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAILABLE
				ASHFIELD							
ANA	1	423150N0724921.1	1275	USGS	1967	B	--	4	43	--	G*
ANA	2	423137N0724705.1	1185	USGS	1967	B	--	4	97	--	G*
ANA	3	423037N0724636.1	989	USGS	1967	B	--	4	64	--	G*
ANB	12	423043N0724633.1	975	MDPW	1955	--	X	--	14	--	D*
ANW	1	423042N0724616.1	1040	TOMLINSON JOHN	1929	--	X	6	311	35	--
ANW	2	423345N0724804.1	1010	CLARK MALCOM S	1948	C	S	6	110	--	D*
ANW	3	423055N0724821.1	1520	HALL HOWARD	1941	C	X	6	74	15	--
ANW	4	423302N0724529.1	1040	MUKA STEPHEN JR	1946	C	X	6	49	10	--
ANW	5	423159N0724801.1	1290	GODFREY LELAND	1947	C	X	6	49	18	--
ANW	7	423317N0724933.1	1380	TATRO CHARLES F	1947	C	X	6	100	20	--
ANW	8	423057N0724522.1	860	FIELD RICHARD F	1948	C	X	6	123	37	--
ANW	9	423056N0724514.1	1060	BULLITT WILLIAM	1950	C	X	6	153	5	--
ANW	10	423222N0724707.1	1170	LEONARD RALPH E	1951	C	X	6	56	40	--
ANW	11	423116N0724744.1	1360	MERKEL MABEL S	1952	C	X	6	87	9	--
ANW	13	423215N0724905.1	1470	ASHFIELD TOWN	1959	--	X	6	110	0	--
ANW	14	423259N0724543.1	1090	--	1962	--	X	6	160	--	--
ANW	15	423104N0724647.1	1020	--	--	--	X	6	100	--	--
ANW	16	423222N0724838.1	1400	STEINMETZ PHILLIP	--	--	X	6	89	15	--
ANW	17	423023N0724550.1	840	MAYO WALTER H	1963	--	X	6	55	17	--
ANW	19	423159N0724914.1	1280	EBEL JOHN H	1963	--	X	6	112	1	--
ANW	20	423156N0724815.1	1260	OTT JOHN B	1966	--	X	6	100	1	--
ANW	21	423125N0724747.1	1350	ASHFIELD GOLF CLUB	1964	--	X	6	300	7	--
ANW	22	423130N0724836.1	1460	HENRY GILBERT	1963	--	X	6	85	75	--
ANW	23	423026N0724841.1	1565	PACKARD GEORGE	1965	--	X	6	95	42	--
ANW	24	423024N0724841.1	1570	SCHREIBER A	1966	--	X	6	90	27	--
ANW	25	423022N0724843.1	1580	LUNDRIGAN K	1965	--	X	6	80	12	--
ANW	26	423020N0724844.1	1590	FULLER DAVID H	1963	--	X	6	55	4	--
ANW	27	422844N0724548.1	1220	SHEPARD R H	1963	--	X	6	85	14	--
ANW	28	423035N0724633.1	985	DICKINSON C F	1953	C	X	6	158	135	--
ANW	29	423035N0724637.1	990	NYE HARLAN	1952	C	X	6	184	--	--
ANW	30	422838N0724601.1	1240	NICHOLLS HOWARD	1963	--	X	6	215	--	--
ANW	31	424335N0724458.1	825	GRUNDEN O S	1965	H	X	6	215	26	--
ANW	32	423036N0724638.1	990	PHELPS ROGER	1966	H	X	6	125	85	--
ANW	33	423031N0724634.1	935	WICKERSON	--	D	O	36	18	--	--
ANW	34	422913N0724712.1	1650	LOMAS RAYMOND	--	D	O	38	9	--	--
ANW	35	423118N0724826.1	1440	--	--	D	W	24	15	--	--
ANW	36	423134N0724741.1	1250	--	--	D	W	36	6	--	--
				BERNARDSTON							
BAB	1	423923N0733345.1	363	MDPW	--	--	O	2	75	--	D*
BAW	5	423916N0723353.1	365	YOUNGS INN	1931	D	W	30	26	--	--
BAW	13	423913N0723405.2	370	BERNARDSTON	1936	D	P	150	30	--	--
BAW	43	423913N0723405.1	370	BERNARDSTON	1955	C	S	8	67	--	--
				BUCKLAND							
BBA	1	423700N0724632.1	508	USGS	1967	B	--	4	79	--	G*
BBA	2	423636N0724631.1	515	USGS	1967	B	--	4	97	--	G*
BBA	3	423540N0724709.1	558	USGS	1967	B	--	4	29	--	G*
BBA	4	423428N0724807.1	664	USGS	1967	B	--	4	21	--	G*
BBB	1	423403N0724808.1	690	MDPW	1955	--	O	--	10	--	D*
BBB	2	423648N0724605.1	490	MDPW	1938	--	O	--	26	--	D*
BBB	3	423702N0724441.1	525	MDPW	1946	--	O	--	17	--	D*
BBB	4	423647N0724414.1	401	MDPW	1944	--	O	--	18	18	D
BBB	5	423605N0724645.1	526	MDPW	1950	--	O	--	7	--	D
BBB	7	423537N0724712.1	560	MDPW	1955	--	O	--	20	--	D*
BBB	8	423522N0724721.1	587	MDPW	1955	--	O	--	17	--	D*
BBB	9	423707N0724451.1	439	MDPW	1946	--	O	--	8	--	D
BBB	10	423404N0724836.1	765	MDPW	1934	--	O	--	8	--	D
BBW	1	423624N0724634.1	515	GORMAN	1948	C	X	6	150	116	--
BBW	2	423657N0724456.1	610	WOODSON JOHN	1952	C	X	6	366	51	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS

WATER LEVEL: LEVELS GIVEN IN FEET BELOW LAND SURFACE; "+" INDICATES WATER LEVEL ABOVE LAND SURFACE; "F" INDICATES FLOWING WELL; "*" INDICATES WATER LEVELS TABULATED IN TABLE 12.

WATER USE: C, COMMERCIAL; H, DOMESTIC; I, IRRIGATION; P, PUBLIC SUPPLY; S, STOCK SUPPLY; T, INSTITUTIONAL; U, UNUSED.

WELL USE: O, OBSERVATION; T, TEST HOLE; U, UNUSED; W, WELL IS BEING PUMPED; Z, DESTROYED.

YIELD: AS REPORTED BY THE DRILLER OR OWNER OR AS MEASURED, IN GALLONS PER MINUTE (GPM).

PUMPING PERIOD: FOR PUMPING PERIODS OF LESS THAN ONE HOUR, THE FOLLOWING CODES ARE USED: A, THROUGH 15 MINUTES; B, 16 TO 30 MINUTES.

QUALITY OF WATER TYPE: C, COMPLETE CHEMICAL ANALYSIS; M, MULTIPLE (INCLUDES ONE COMPLETE AND MANY PARTIAL CHEMICAL ANALYSES); P, PARTIAL CHEMICAL ANALYSIS; "*" INDICATES ANALYSIS IS IN TABLE 8.

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				ASHFIELD						
ANA	1	FINE GRAINED SAND	29	10-67	U	T	--	--	--	--
ANA	2	FINE GRAINED SAND	45	10-67	U	T	--	--	--	--
ANA	3	FINE GRAINED SAND	--	--	U	T	--	--	--	--
ANB	12	--	--	--	U	T	--	--	--	--
ANW	1	--	67	-29	H	W	8	--	--	--
ANW	2	SAND AND GRAVEL	F	-48	H	W	15	--	--	--
ANW	3	--	29	9-41	H	W	6	--	--	--
ANW	4	--	14	5-46	H	W	30	--	--	--
ANW	5	--	11	9-47	H	W	10	--	--	--
ANW	7	--	--	--	H	W	6	--	--	--
ANW	8	--	10	10-48	--	W	4	--	--	--
ANW	9	--	36	10-52	H	W	14	--	--	--
ANW	10	--	1	-51	--	W	12	--	--	--
ANW	11	--	1	-52	H	W	15	--	--	--
ANW	13	--	--	--	P	W	28	--	--	--
ANW	14	--	--	--	--	W	4	--	--	--
ANW	15	--	F	--	--	W	--	--	--	C*
ANW	16	--	20	--	H	W	5	--	--	--
ANW	17	--	20	10-63	H	W	10	--	--	--
ANW	19	--	15	8-63	H	W	15	--	--	--
ANW	20	--	20	7-66	H	W	4	--	--	--
ANW	21	--	1	8-64	U	U	1	--	--	--
ANW	22	SHALE	20	-63	H	W	20	--	--	--
ANW	23	--	--	--	H	W	12	--	--	--
ANW	24	--	9	12-66	H	W	10	--	--	--
ANW	25	--	--	--	H	W	15	--	--	--
ANW	26	--	22	7-63	H	W	--	--	--	--
ANW	27	--	14	11-63	H	W	15	--	--	--
ANW	28	--	9	-53	H	W	20	--	A	C*
ANW	29	--	16	-53	H	W	16	--	--	--
ANW	30	--	16	--	H	W	20	--	--	--
ANW	31	--	30	7-66	H	W	35	--	--	--
ANW	32	--	--	--	H	W	75	--	--	--
ANW	33	--	8	5-68	--	W	--	--	--	--
ANW	34	--	0	5-68	H	W	--	--	--	--
ANW	35	--	5	5-68	U	O	--	--	--	--
ANW	36	TILL	2	5-68	U	O	--	--	--	--
				BERNARDSTON						
BAB	1	--	--	--	U	T	--	--	--	--
BAW	5	--	--	--	C	W	--	--	--	--
BAW	13	GRAVEL	12	7-52	P	W	250	--	--	--
BAW	43	GRAVEL	10	6-57	P	W	305	--	48	--
				BUCKLAND						
B3A	1	SILTY CLAY	8	10-67	U	T	--	--	--	--
B3A	2	CLAYEY SILTY SAND	10	10-67	U	T	--	--	--	--
B3A	3	CLAYEY SAND	7	10-67	U	T	--	--	--	--
B3A	4	--	--	--	U	T	--	--	--	--
B3B	1	--	2	4-55	U	T	--	--	--	--
B3B	2	SAND AND GRAVEL	--	--	U	T	--	--	--	--
B3B	3	--	--	--	U	T	--	--	--	--
B3B	4	UNCONSOLIDATED SAND AND GRAVEL	0	8-44	U	T	--	--	--	--
B3B	5	--	--	--	U	T	--	--	--	--
B3B	7	UNCONSOLIDATED SAND AND GRAVEL	10	4-55	U	T	--	--	--	--
B3B	8	--	1	4-55	U	T	--	--	--	--
B3B	9	--	--	--	U	T	--	--	--	--
B3B	10	--	--	--	U	T	--	--	--	--
B3W	1	METAMORPHIC FINE GRAINED	14	6-48	--	W	--	--	--	--
B3W	2	CHERTY OR SILICEOUS METAMORPHIC COARSE GRAINED	54	-52	H	W	1	--	6	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTITUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAILABLE
				BUCKLAND--CONTINUED							
B3W	3	423654N0724547.1	540	GOULD GARDNER	1943	C	X	6	90	35	--
B3W	4	423656N0724530.1	522	MOHAWK TRAIL H S	1965	--	X	6	400	75	--
B3W	5	423510N0724732.1	605	PURINTON G E	1965	A	X	6	127	55	--
B3W	6	423642N0724636.1	554	GOODNOW LEON F	1963	--	X	6	195	93	--
B3W	7	423509N0724454.1	965	WAID JESSE	1965	D	O	36	14	--	--
B3W	8	423606N0724610.1	475	USGS	1967	W	P	2	67	--	G*
B3W	9	423612N0724634.1	530	USGS	1967	W	P	2	64	62	G*
B3W	10	423642N0724627.1	490	HALE NATHAN	1965	--	X	8	145	98	--
B3W	11	423648N0724634.1	550	MOWRY EDWARD	1964	A	X	6	218	63	--
B3W	12	423451N0724901.1	920	SCOTT JAMES E	1965	--	X	6	120	100	--
B3W	13	423645N0724615.1	500	MARSOLAIS H	--	D	W	30	20	--	--
B3W	14	423526N0724726.1	630	LITCHFIELD C M	1965	--	X	6	85	35	--
B3W	15	423651N0724632.1	545	RICE KENNETH	1962	C	S	6	126	--	--
B3W	16	423702N0724416.1	440	SHELBURNE FALLS	1965	W	P	2	18	--	D
B3W	17	423701N0724416.1	440	SHELBURNE FALLS	1965	W	P	2	10	--	D
B3W	18	423658N0724416.1	420	SHELBURNE FALLS	1965	W	P	2	15	--	D
B3W	19	423600N0724414.1	430	SHELBURNE FALLS	1965	W	P	2	8	--	D
B3W	20	423700N0724411.1	420	SHELBURNE FALLS	1965	W	P	2	22	--	D
B3W	21	423702N0724412.1	415	SHELBURNE FALLS	1965	W	P	2	7	--	D
B3W	22	423704N0724414.1	420	SHELBURNE FALLS	1965	W	P	2	7	--	D
B3W	23	423707N0724415.1	420	SHELBURNE FALLS	1965	C	--	8	44	--	D*
B3W	24	423547N0724624.1	900	ROSE CORWIN H	1965	--	X	6	300	12	--
B3W	25	423643N0724618.1	505	NELSON	1965	--	X	6	99	73	--
B3W	26	423643N0724614.1	495	WILLIAMS F	1962	--	X	6	115	--	--
B3W	27	423505N0724727.1	670	BILLIEL DONALD	1955	--	X	6	127	30	--
				CHARLEMONT							
CEA	1	423805N0725351.1	568	USGS	1967	B	--	4	92	--	G*
CEA	2	423833N0725534.1	602	USGS	1967	B	--	4	10	--	G
CEB	3	423921N0725614.1	630	MDPW	1938	--	O	--	21	--	D*
CEB	7	423739N0724414.1	410	MDPW	--	--	O	--	10	--	D*
CEB	8	423748N0725408.1	563	MDPW	1938	--	O	--	40	--	D*
CEB	10	423734N0725301.1	545	MDPW	1939	--	O	--	15	15	D*
CEB	11	423740N0725222.1	545	MDPW	1938	--	O	--	25	--	D*
CEB	12	423819N0725438.1	562	MDPW	1946	--	O	--	29	--	D*
CEB	24	423831N0725522.1	600	MDPW	--	--	O	--	10	--	D*
CEB	34	423849N0725200.1	788	MDPW	1938	--	O	--	19	--	D
CEW	1	423743N0725212.1	600	TURNER DORA	--	D	W	240	20	--	--
CEW	2	423736N0725233.1	650	HIGH SCHOOL	1940	C	X	6	291	100	--
CEW	3	424017N0725335.1	1590	LEE FRANK H	1949	C	X	6	54	21	D*
CEW	4	423739N0725229.1	570	LANDUE O A	1949	C	P	6	54	--	D*
CEW	5	423936N0725347.1	1420	RUSSELL MARY C	1951	C	X	6	47	23	D
CEW	6	423734N0725253.1	550	HAWKS NORMAN	1949	C	X	6	91	56	D
CEW	10	423718N0724727.1	511	BROWNWORD E W	1947	C	S	6	140	--	--
CEW	11	423739N0725210.1	580	CLARK BROTHERS	1950	C	X	6	240	64	--
CEW	12	423816N0725436.1	570	USGS	1967	W	O	2	55	--	G*
CEW	13	423753N0725257.1	800	PURINTON R A	1956	C	X	6	95	10	--
CEW	14	423735N0725301.1	540	KOLNACKI JOSEPH	--	D	W	28	5	--	--
CEW	15	423735N0725301.2	540	KOLNACKI JOSEPH	1954	B	X	4	26	8	--
CEW	16	423739N0725224.1	560	WILSON RAY	1946	B	--	4	66	--	--
CEW	17	423741N0725210.1	590	FEDERATED CHURCH	1965	--	X	6	125	25	--
CEW	18	423708N0724747.1	510	DALLY A K	1947	C	X	6	177	120	--
CEW	19	423720N0724540.1	525	BLISS VERNE	1965	A	X	6	200	115	--
CEW	20	423720N0724540.2	525	BLISS VERNE	1965	D	O	48	6	--	--
CEW	21	423736N0725252.1	560	STETSON FRANK	1964	A	X	6	115	63	--
CEW	22	423824N0725446.1	575	MOHAWK PARK	--	D	O	48	25	--	--
CEW	23	423726N0724711.1	510	ADAMS CAROL	1965	--	X	6	100	61	--
CEW	24	423741N0725148.1	580	NEWELL RALPH	1966	--	X	6	185	13	--
CEW	25	423739N0725213.1	580	KIRK NORMAN	1966	--	X	6	150	80	--
CEW	26	423756N0725258.1	820	RAYMOND DONALD	1965	--	X	6	80	15	--
CEW	27	423747N0725332.1	550	BARRETT EARLE B	1949	C	O	6	310	--	--
CEW	28	423752N0725338.1	545	BARRETT EARLE B	1949	C	O	6	13	--	--
CEW	29	423745N0725256.1	705	ASKEW DORIS	1959	C	X	8	137	35	--
CEW	30	423919N0725614.1	630	HOYT CHARLES	1966	C	--	6	91	--	--
CEW	31	423736N0725258.1	545	TAYLOR THERON	1965	--	X	6	175	30	--
CEW	32	423941N0725150.1	1390	BURT HAROLD	1965	--	X	6	145	16	--
CEW	33	423739N0725222.1	560	ANNEAR CYRUS	1965	--	X	6	115	89	--
CEW	34	423748N0725259.1	780	TILLEY CHARLOTTE	1965	--	X	6	145	18	--
CEW	35	423744N0725212.1	600	TURNER LEON	1965	--	X	6	156	70	--
CEW	36	423739N0725207.1	580	SEVIGNY ROBERT	1964	C	--	6	102	--	--
CEW	37	423804N0725304.1	920	WARFIELD AGNES	1945	C	X	6	84	--	--
CEW	38	423718N0724527.1	485	PARKER FLOYD	1967	--	X	6	30	10	--
CEW	39	423716N0725231.1	645	THUNDER MT CORP	1952	C	X	6	82	8	--
CEW	40	423725N0724711.2	510	ADAMS CAROL	--	D	W	48	13	--	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				BUCKLAND--CONTINUED						
B3W	3	--	10	-43	H	W	2	--	--	C*
B3W	4	--	38	9-65	T	W	48	143	--	--
B3W	5	--	--	--	C	W	2	20	4	--
B3W	6	--	--	--	H	W	6	--	--	--
B3W	7	CLAY	--	--	H	W	--	--	--	--
B3W	8	CLAYEY SILT OR LOESS	--	--	U	T	--	--	--	--
B3W	9	SILTY SAND	6	8-67	--	T	--	--	--	C*
B3W	10	--	5	-65	H	W	20	100	5	--
B3W	11	--	51	11-64	H	W	3	150	2	--
B3W	12	--	110	8-65	H	W	10	--	4	--
B3W	13	SAND	--	--	H	W	--	--	--	--
B3W	14	--	75	8-65	H	W	8	20	4	--
B3W	15	GRAVEL	57	8-62	H	W	6	--	16	C*
B3W	16	--	--	--	U	T	--	--	--	--
B3W	17	--	--	--	U	T	--	--	--	--
B3W	18	--	--	--	U	T	--	--	--	--
B3W	19	--	--	--	U	T	--	--	--	--
B3W	20	--	--	--	U	T	--	--	--	--
B3W	21	--	--	--	U	T	--	--	--	--
B3W	22	--	--	--	U	T	--	--	--	--
B3W	23	--	--	--	U	T	--	--	--	--
B3W	24	--	62	9-65	--	W	2	--	--	--
B3W	25	--	--	--	H	W	5	--	--	--
B3W	26	--	--	--	H	W	4	--	--	--
B3W	27	--	F	-55	H	W	15	--	--	--
				CHARLEMONT						
CEA	1	CLAYEY SAND	5	10-67	U	T	--	--	--	--
CEA	2	--	--	--	U	T	--	--	--	--
CEB	3	--	--	--	U	T	--	--	--	--
CEB	7	--	--	--	U	T	--	--	--	--
CEB	8	UNCONSOLIDATED SAND AND GRAVEL	7	-38	U	T	--	--	--	--
CEB	10	--	--	--	U	T	--	--	--	--
CEB	11	--	--	--	U	T	--	--	--	--
CEB	12	UNCONSOLIDATED SAND AND GRAVEL	+4	5-46	U	T	--	--	--	--
CEB	24	--	--	--	U	T	--	--	--	--
CEB	34	SAND AND GRAVEL	--	--	U	T	--	--	--	--
CEW	1	--	--	--	U	Z	--	--	--	--
CEW	2	--	--	--	T	W	5	--	--	--
CEW	3	SHALY OR SLATY METAMORPHIC FINE GRAIN	--	--	H	W	4	--	--	--
CEW	4	--	9	11-49	H	W	9	--	16	--
CEW	5	METAMORPHIC FINE GRAINED	18	7-51	H	W	2	--	--	--
CEW	6	METAMORPHIC FINE GRAINED	11	11-49	H	W	4	--	--	--
CEW	10	UNCONSOLIDATED	28	12-47	H	W	10	--	--	--
CEW	11	--	10	6-50	--	W	4	--	--	--
CEW	12	GRAVELLY SAND	8	8-67	U	T	--	--	--	C*
CEW	13	--	15	-56	H	W	4	--	--	--
CEW	14	--	2	--	U	U	--	--	--	--
CEW	15	--	--	--	H	W	4	--	--	--
CEW	16	SAND	1	-46	H	W	--	--	--	--
CEW	17	--	--	--	H	W	8	--	--	--
CEW	18	--	6	5-47	C	W	55	--	--	--
CEW	19	--	185	9-65	H	W	1	45	4	--
CEW	20	--	0	-65	H	W	--	--	--	--
CEW	21	--	--	--	C	W	15	--	--	--
CEW	22	GRAVEL	--	--	C	W	--	--	--	--
CEW	23	--	--	--	--	W	12	--	--	C*
CEW	24	--	--	--	H	W	--	--	--	--
CEW	25	--	--	--	H	W	4	--	--	--
CEW	26	--	13	6-65	H	W	6	--	--	--
CEW	27	CLAY	18	-49	--	Z	1	--	--	--
CEW	28	GRAVEL	4	-49	C	W	50	--	--	--
CEW	29	--	60	-59	H	W	6	--	--	--
CEW	30	GRAVEL	30	12-66	H	W	--	--	--	--
CEW	31	--	30	5-65	H	W	5	140	10	--
CEW	32	--	--	--	I	W	6	90	2	--
CEW	33	--	30	7-65	H	W	20	100	5	--
CEW	34	--	46	7-65	H	W	5	130	8	--
CEW	35	--	2	5-65	H	W	4	120	10	--
CEW	36	GRAVEL	45	5-64	H	W	30	85	15	--
CEW	37	--	--	--	H	W	--	--	--	--
CEW	38	METAMORPHIC COARSE GRAINED	4	10-67	H	W	15	--	--	--
CEW	39	--	--	--	--	W	8	--	--	C*
CEW	40	--	--	--	H	W	--	--	--	C*

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTI-TUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAM-ETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAIL-ABLE
				COLRAIN							
CSA	1	423954N0724316.1	525	USGS	1967	B	--	4	57	--	G*
CSA	2	424011N0724308.1	527	USGS	1967	B	--	4	50	--	G*
CSA	3	424038N0724144.1	599	USGS	1967	B	--	4	59	--	G*
CSA	4	424143N0724130.1	619	USGS	1967	B	--	4	39	--	G*
CSB	4	424242N0724206.1	665	MDPW	--	--	O	--	22	--	D*
CSB	5	424341N0724250.1	722	MDPW	1938	--	O	--	23	--	D*
CSB	8	423930N0724254.1	507	MDPW	--	--	O	--	31	--	D*
CSB	10	423914N0724255.1	500	MDPW	1938	--	O	--	45	--	D*
CSB	12	423809N0724359.1	455	MDPW	1955	--	O	--	22	--	D*
CSB	14	423958N0724324.1	525	MDPW	1938	--	O	--	28	--	D*
CSB	16	423933N0724405.1	595	MDPW	1936	--	O	--	31	--	D*
CSB	17	424058N0724505.1	725	MDPW	1938	--	O	--	24	--	D*
CSB	18	424050N0724458.1	645	MDPW	1938	--	O	--	26	--	D*
CSB	19	424126N0724532.1	665	MDPW	1936	--	O	--	17	--	D*
CSB	25	424026N0724309.1	555	MDPW	1938	--	O	--	11	--	D*
CSB	39	424042N0724430.1	645	MDPW	1938	--	O	--	21	--	D*
CSW	1	423832N0724305.2	482	SHELBURNE FALLS	1966	W	O	3	40	--	D
CSW	2	423835N0724302.1	485	SHELBURNE FALLS	--	--	P	2	29	--	D
CSW	8	423809N0724356.1	460	USGS	1964	B	S	1	32	--	G*
CSW	9	423832N0724305.1	485	SHELBURNE FALLS	1952	C	S	12	42	--	D*
CSW	10	423830N0724308.1	482	SHELBURNE FALLS	1966	W	P	2	65	--	D*
CSW	11	424012N0724258.1	580	CUTTING FRANK A	1966	B	X	6	45	14	--
CSW	12	424018N0724259.1	560	GOOLEY HOWARD	1947	D	O	38	15	--	--
CSW	13	423912N0724259.1	510	STREETER FOSTER	1965	C	--	6	27	--	--
CSW	14	424219N0724346.1	1235	DUMAS CHARLES R	1947	C	X	8	162	20	--
CSW	15	423932N0723954.1	890	SCRANTON DUANE	1964	A	--	6	121	--	--
CSW	16	424030N0724248.1	570	KENDALL CO	1940	C	X	6	295	--	--
CSW	17	423922N0724259.1	505	KENDALL CO	1940	C	X	8	298	45	--
CSW	18	423856N0723845.1	500	GRISWOLDVILLE	1963	C	S	6	39	--	--
CSW	19	423829N0724307.1	570	SHELBURNE FALLS	1966	W	P	2	36	--	D
CSW	20	424013N0724336.1	600	TEMPLE HAROLD	1966	--	X	6	50	10	--
CSW	21	424026N0724349.1	590	HERZIG STANLEY	1965	C	X	6	50	15	--
CSW	22	424019N0724343.1	575	HERZIG LEON	1966	--	X	6	200	11	--
CSW	23	424211N0724640.1	990	BOWEN J H	1967	--	X	6	103	40	--
CSW	24	424032N0724149.1	600	CENTRAL SCHOOL	1949	C	X	8	165	60	--
CSW	26	424322N0724426.1	1470	HERZIG CARL	1965	H	X	6	85	--	--
CSW	27	424330N0724548.1	1715	TRANOWSKI W J	1964	H	X	6	140	25	--
CSW	28	424023N0724251.1	600	STREETER RALPH	1958	C	X	6	110	15	--
CSW	29	424041N0724136.1	391	COLRAIN FIRE DIST	--	--	--	2	45	--	--
CSW	30	423856N0724123.1	1175	PIKE DAVID	--	D	W	36	15	15	--
CSW	31	424005N0724111.1	968	COLRAIN FIRE DIST	--	--	X	6	--	--	--
CSW	32	424239N0724213.1	700	KRUGER JOSEPH	--	D	O	36	12	--	--
CSW	33	424339N0724252.1	741	CROMACK	--	D	W	24	24	--	--
CSW	34	424335N0724559.1	1715	KEMP ELLSWORTH	--	D	W	36	33	--	--
CSW	35	424127N0724535.1	728	DUNNELL DEAN	--	D	O	42	8	--	--
				CONWAY							
CWB	1	422903N0724513.1	968	MDPW	--	--	O	--	14	--	D*
CWB	3	423015N0724451.1	814	MDPW	1938	--	O	--	28	--	D*
CWB	4	423042N0724438.1	797	MDPW	1940	--	O	--	50	--	D*
CWB	6	423103N0724357.1	708	MDPW	1958	--	O	--	32	--	D*
CWB	10	423053N0724138.1	522	MDPW	--	--	O	--	8	--	D*
CWB	19	423230N0724338.1	603	MDPW	1938	--	O	--	18	--	D*
CWW	173	423040N0724157.1	610	ROSE EDWIAN A	1965	--	X	6	100	11	--
CWW	174	423018N0724219.1	670	DACY BERTHA	1964	--	X	6	173	128	--
CWW	175	423349N0724237.1	600	RUSH DR LEWIS E	1964	--	X	6	174	--	--
CWW	176	423314N0724249.1	780	MEYER CARL	1966	--	X	6	200	--	--
CWW	177	423241N0724156.1	655	HOLE JAMES	1899	D	W	30	16	16	--
CWW	178	423241N0724156.2	655	HOLE JAMES	1964	--	X	6	54	22	D
CWW	179	423033N0724205.1	595	WEEKS JAMES JR	1964	--	X	6	360	190	--
CWW	180	423041N0724157.1	670	KRATT LLOYD L	1963	--	X	6	85	21	--
CWW	181	423040N0724252.1	653	STAELENS RICHARD	1963	--	X	6	210	75	--
CWW	182	423045N0724134.1	550	CLARK LYLE D	1963	--	X	6	250	54	--
CWW	183	423022N0724218.1	680	CONWAY GRAMMAR SCH	1939	C	X	10	500	150	--
CWW	184	423024N0724223.1	640	FRENCH NORMAN	--	C	--	6	85	--	--
CWW	185	423024N0724440.1	875	--	--	D	W	24	9	--	--
CWW	186	423049N0724303.1	665	VAN GELDEN J	--	D	O	36	12	--	--
CWW	187	423031N0724149.1	551	BLAKSLIE HAROLD	--	D	W	36	--	--	--
CWW	188	423232N0724139.1	485	--	--	D	W	--	14	--	D

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				COLRAIN						
CSA	1	GRAVELLY SAND	9	10-67	U	T	--	--	--	--
CSA	2	GRAVELLY SAND	11	10-67	U	T	--	--	--	--
CSA	3	GRAVELLY SAND	10	10-67	U	T	--	--	--	--
CSA	4	GRAVELLY SAND	10	10-67	U	T	--	--	--	--
CSB	4	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	5	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	8	--	--	--	U	T	--	--	--	--
CSB	10	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	12	SAND AND GRAVEL	5	6-55	U	T	--	--	--	--
CSB	14	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	16	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	17	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	18	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	19	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	--	--	--	--
CSB	25	SAND AND GRAVEL	0	11-38	U	T	--	--	--	--
CSB	39	CLAYEY SAND AND GRAVEL	2	11-38	U	T	--	--	--	--
CSW	1	SAND AND GRAVEL	7	5-68	P	O	--	--	--	--
CSW	2	BOULDERY SAND AND GRAVEL	9	--	P	W	40	--	--	--
CSW	8	SAND AND GRAVEL	23	12-64	U	O	--	--	--	--
CSW	9	BOULDERY SAND AND GRAVEL	9	-52	P	W	300	1	50	P*
CSW	10	SAND	10	12-66	--	T	50	2	8	C*
CSW	11	INTERBEDDED METAMORPHIC FINE GRAINED	35	12-66	H	W	10	--	--	--
CSW	12	GRAVEL	--	--	H	W	--	--	--	P*
CSW	13	GRAVEL	12	7-65	C	W	12	--	--	P*
CSW	14	INTERBEDDED METAMORPHIC FINE GRAINED	20	-47	C	W	8	--	--	M*
CSW	15	GRAVEL	15	11-64	H	W	10	50	2	--
CSW	16	INTERBEDDED METAMORPHIC FINE GRAINED	30	--	C	W	30	--	--	--
CSW	17	INTERBEDDED METAMORPHIC FINE GRAINED	40	--	C	W	60	--	--	--
CSW	18	GRAVEL	14	-63	P	W	70	--	--	--
CSW	19	BOULDERY SAND AND GRAVEL	8	1-66	U	T	--	--	--	--
CSW	20	INTERBEDDED METAMORPHIC FINE GRAINED	F	10-66	H	W	12	--	36	--
CSW	21	--	40	-65	S	W	15	--	--	--
CSW	22	INTERBEDDED METAMORPHIC FINE GRAINED	15	10-66	H	W	2	--	--	--
CSW	23	--	9	5-67	H	W	6	80	6	--
CSW	24	INTERBEDDED METAMORPHIC FINE GRAINED	--	--	T	W	6	--	--	P*
CSW	26	--	70	5-65	H	W	15	--	--	--
CSW	27	--	--	--	H	W	7	--	--	--
CSW	28	--	--	--	H	W	10	--	--	--
CSW	29	SAND AND GRAVEL	8	5-68	P	W	65	--	--	--
CSW	30	TILL	3	5-68	H	W	--	--	--	--
CSW	31	METAMORPHIC FINE GRAINED	2	12-68	U	O	.5	--	--	--
CSW	32	--	4	5-68	--	O	--	--	--	--
CSW	33	SAND AND GRAVEL	14	5-68	U	O	--	--	--	--
CSW	34	TILL	16	5-68	--	W	--	--	--	--
CSW	35	SAND AND GRAVEL	5	5-68	U	O	--	--	--	--
				CONWAY						
CWB	1	CLAYEY SAND AND GRAVEL	0	--	U	T	--	--	--	--
CWB	3	--	--	--	U	T	--	--	--	--
CWB	4	CLAYEY SAND AND GRAVEL	5	1-40	U	T	--	--	--	--
CWB	6	FINE GRAINED SAND	3	-58	U	T	--	--	--	--
CWB	10	--	--	--	U	T	--	--	--	--
CWB	19	--	--	--	U	T	--	--	--	--
CWW	173	--	--	--	H	W	7	--	--	--
CWW	174	--	50	8-64	H	W	7	--	--	--
CWW	175	GRAVEL	50	11-64	H	W	15	--	--	--
CWW	176	--	--	--	H	U	3	--	--	--
CWW	177	TILL	10	-64	U	O	1	--	--	--
CWW	178	--	20	9-64	S	W	35	--	--	C*
CWW	179	--	F	10-64	H	W	15	--	--	--
CWW	180	--	24	9-63	H	W	2	--	--	--
CWW	181	--	3	7-63	H	W	--	--	--	--
CWW	182	--	16	7-63	H	W	--	--	--	--
CWW	183	GRAVEL	--	--	T	W	--	--	--	P*
CWW	184	--	F	--	H	W	--	--	--	C*
CWW	185	TILL	1	5-68	U	O	--	--	--	--
CWW	186	SAND AND GRAVEL	5	5-68	H	W	--	--	--	--
CWW	187	--	6	5-68	H	W	--	--	--	--
CWW	188	SAND AND GRAVEL	4	5-68	H	W	--	--	--	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTITUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAILABLE
				DEERFIELD							
DFA	1	423312N0723618.1	140	USGS	1967	B	--	4	92	--	G*
DFA	2	423324N0723612.1	140	USGS	1967	B	--	4	70	--	G*
DFA	3	423331N0723625.1	140	USGS	1967	B	--	4	75	--	G*
DFA	4	423348N0723640.1	140	USGS	1967	B	--	4	92	--	G*
DFA	5	423407N0723615.1	140	USGS	1967	B	--	4	89	--	G*
DFA	6	423320N0723635.1	140	USGS	1967	B	--	4	37	--	G*
DFA	7	423220N0723626.1	135	USGS	1967	B	--	4	92	--	G*
DFA	8	423207N0723640.1	139	USGS	1967	B	--	4	37	--	G*
DFA	9	423144N0723645.1	142	USGS	1967	B	--	4	87	--	G*
DFA	10	423208N0723703.1	135	USGS	1967	B	--	4	52	--	G*
DFA	11	423117N0723730.1	149	USGS	1967	B	--	4	52	--	G*
DFA	12	423058N0723621.1	185	USGS	1967	B	--	4	87	--	G*
DFB	1	423136N0723759.1	145	MDPW	1949	--	O	2	56	55	D*
DFB	2	423408N0723533.1	127	MDPW	--	--	O	2	28	--	D*
DFB	43	423035N0723720.1	265	MDPW	--	--	O	--	102	--	D*
DFB	44	423119N0723734.1	154	MDPW	1961	--	O	--	91	--	D*
DFB	45	423136N0723740.1	171	MDPW	1961	--	O	--	112	--	D*
DFR	1	423047N0723720.1	184	MDPW	1962	W	O	2	67	--	D*
DFR	2	423054N0723724.1	151	MDPW	1962	W	O	2	62	--	D*
DFR	3	423132N0723739.1	160	MDPW	1961	W	O	2	71	--	D*
DFR	4	423202N0723744.1	160	MDPW	1962	W	O	2	52	--	D*
DFR	5	423215N0723740.1	168	MDPW	1961	W	O	2	22	20	D*
DFR	6	423221N0723739.1	297	MDPW	1961	W	O	2	110	--	D*
DFR	7	423245N0723722.1	294	MDPW	1961	W	O	2	53	--	D*
DFR	8	423251N0723718.1	278	MDPW	1962	W	O	2	37	--	D*
DFR	9	423309N0723715.1	186	MDPW	1961	W	O	2	5	5	D*
DFR	10	423340N0723715.1	204	MDPW	1962	W	O	2	40	--	D*
DFR	11	423344N0723715.1	248	MDPW	1962	W	O	2	101	94	D*
DFR	12	423351N0723715.1	150	MDPW	1961	W	O	2	23	23	D*
DFR	13	423403N0723717.1	173	MDPW	1961	W	O	2	57	--	D*
DFR	14	423409N0723717.1	189	MDPW	1961	W	O	2	52	--	D*
DFW	2	423358N0723536.1	130	MCCARTHY MRS J	--	D	O	48	30	--	--
DFW	30	423200N0723723.1	150	CONSOL CIGAR CO	--	--	X	6	450	48	--
DFW	31	423325N0723453.1	380	SPRUYGT F J	--	--	X	6	124	40	--
DFW	33	423110N0723624.1	190	DEERFIELD F D	1950	--	G	12	34	--	D*
DFW	42	423206N0723730.1	163	HASSAY MICHAEL	1964	--	X	6	350	50	--
DFW	44	423310N0723558.1	140	USGS	1964	B	S	2	28	--	G
DFW	47	423406N0723515.1	250	WARNER BROTHERS	1940	C	X	6	172	0	--
DFW	48	423401N0723505.1	200	WARNER BROTHERS	1965	--	X	6	347	0	--
DFW	49	423403N0723504.1	200	WARNER BROTHERS	1965	--	X	6	100	0	D
DFW	50	423228N0723534.1	410	EAGLE BROOK SCH	1949	C	X	6	315	10	--
DFW	51	423329N0723732.1	310	EMERSON LAWRENCE	1967	--	X	6	175	8	--
DFW	52	423248N0723624.1	160	DEERFIELD ACADEMY	1966	W	P	2	20	--	--
DFW	53	423309N0723603.1	140	DEERFIELD F D	1967	W	S	2	26	--	D
DFW	54	423309N0723605.1	140	DEERFIELD F D	1967	W	S	2	26	--	D*
DFW	55	423122N0723741.1	155	DEERFIELD F D	1965	W	S	2	45	--	D*
				FLORIDA							
FUA	1	423956N0725917.1	730	USGS	1967	B	--	4	19	--	G*
FUA	2	423940N0725842.1	705	USGS	1967	B	--	4	10	--	G*
FUA	3	424047N0725920.1	760	USGS	1967	B	--	4	12	--	G*
FUA	4	424207N0725704.1	960	USGS	1967	B	--	4	10	--	G*
FUB	1	423758N0725830.1	972	MDPW	1955	--	O	--	22	--	D
FUW	1	424135N0730320.1	1890	SWANSON ELLEN T	1949	C	X	6	50	30	D*
FUW	2	424150N0730206.1	2018	MARTIN J C	1949	C	X	6	55	24	D*
FUW	3	424140N0730327.1	1930	TUPPER WARREN	1949	C	X	6	100	14	D*
FUW	4	423934N0730026.1	1765	BOUCHER ROLAND	1949	C	X	6	53	18	D
FUW	5	424140N0730235.1	1942	GOMAN JUDSON	1949	C	X	6	106	76	D*
FUW	6	424215N0730154.1	2120	ARIGONI H C	1951	C	X	6	96	30	D
FUW	7	424137N0730144.1	1984	DAVIS HAROLD	1951	C	X	6	186	15	D*
FUW	8	424139N0730142.1	1994	MARTIN JAMES	1950	C	X	6	68	20	D*
FUW	11	423852N0725959.1	1650	MYAL DONALD J	1952	C	X	6	200	21	--
FUW	12	423855N0730001.1	1680	MOREAU LEO A	1952	C	X	6	97	20	--
FUW	13	423858N0725918.1	1610	ZAPPULLA FRANK	--	--	X	6	86	27	--
FUW	14	423859N0725925.1	1600	PAOLETTI ROMEO	1951	C	X	6	94	32	--
FUW	15	423903N0725937.1	1600	HUNKLER STEWART	1951	C	X	6	54	6	--
FUW	16	423959N0730046.1	1900	FLORIDA TOWN	1951	C	X	6	73	13	--
FUW	17	424136N0730217.1	2000	FLORIDA SCHOOL	1951	C	X	6	200	64	--
FUW	18	424159N0730203.1	2050	CAMPBELL PAUL	1963	C	X	6	115	17	--
FUW	19	424139N0730205.1	2000	MARTIN LAWRENCE	1963	--	X	6	90	25	--
FUW	20	424143N0730258.1	1920	FOUCHER ROBERT	1966	--	X	6	200	42	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				DEERFIELD						
DEA	1	CLAY	9	10-67	U	T	--	--	--	--
DEA	2	GRAVELLY CLAY	10	10-67	U	T	--	--	--	--
DEA	3	CLAY	10	10-67	U	T	--	--	--	--
DEA	4	CLAY	20	10-67	--	T	--	--	--	--
DEA	5	CLAYEY CLAY	25	10-67	U	T	--	--	--	--
DEA	6	GRAVELLY SAND	14	10-67	U	T	--	--	--	--
DEA	7	CLAYEY SILT OR LOESS	6	10-67	U	T	--	--	--	--
DEA	8	FINE GRAINED SAND	2	10-67	U	T	--	--	--	--
DEA	9	SILTY SAND	10	10-67	U	T	--	--	--	--
DEA	10	--	--	--	U	T	--	--	--	--
DEA	11	SANDY SILT OR LOESS	16	10-67	U	T	--	--	--	--
DEA	12	COARSE GRAINED SAND	25	10-69	U	T	--	--	--	--
DEB	1	FINE GRAINED SILTY SAND	0	8-49	U	T	--	--	--	--
DEB	2	COARSE GRAINED SAND AND GRAVEL	17	--	U	T	--	--	--	--
DEB	43	FINE GRAINED SILTY SAND	48	11-61	U	T	--	--	--	--
DEB	44	UNCONSOLIDATED SAND AND GRAVEL	9	11-61	U	T	--	--	--	--
DEB	45	SILTY SAND	28	11-61	U	T	--	--	--	--
DER	1	SILT OR LOESS	12	1-62	U	T	--	--	--	--
DER	2	SANDY SILT OR LOESS	--	--	U	T	--	--	--	--
DER	3	SAND AND GRAVEL	--	--	U	T	--	--	--	--
DER	4	COARSE GRAINED SAND AND GRAVEL	12	1-62	U	T	--	--	--	--
DER	5	SANDY SILT OR LOESS	1	11-68	U	T	--	--	--	--
DER	6	SILTY SAND	--	--	U	T	--	--	--	--
DER	7	--	--	--	U	T	--	--	--	--
DER	8	SANDY GRAVEL	30	1-62	U	T	--	--	--	--
DER	9	--	--	--	U	T	--	--	--	--
DER	10	--	--	--	U	T	--	--	--	--
DER	11	--	--	--	U	T	--	--	--	--
DER	12	FINE GRAINED SAND AND GRAVEL	7	12-61	U	T	--	--	--	--
DER	13	--	--	--	U	T	--	--	--	--
DER	14	CHERTY OR SILICEOUS	24	12-61	U	T	--	--	--	--
DEW	2	--	--	--	--	W	--	--	--	--
DEW	30	SANDSTONE	16	--	N	W	5	--	--	--
DEW	31	IGNEOUS, GRANULAR	18	--	--	W	10	--	--	--
DEW	33	GRAVEL	12	9-49	--	W	163	9	--	C*
DEW	42	GRAVELLY SANDSTONE	3	-64	I	W	2	--	--	C*
DEW	44	SAND AND GRAVEL	4	12-64	--	O	--	--	--	--
DEW	47	IGNEOUS, GRANULAR	38	--	C	W	126	155	24	--
DEW	48	IGNEOUS, GRANULAR	33	-65	C	W	47	240	48	--
DEW	49	IGNEOUS, GRANULAR	3	-65	--	W	15	70	--	C*
DEW	50	--	125	-58	--	W	65	--	20	C*
DEW	51	--	165	4-67	--	W	15	--	--	C*
DEW	52	SAND	5	8-66	--	T	50	--	4	--
DEW	53	UNCONSOLIDATED SAND AND GRAVEL	--	--	U	T	80	--	--	--
DEW	54	CLAYEY GRAVEL	--	--	U	T	80	--	--	--
DEW	55	MEDIUM GRAINED SAND AND GRAVEL	8	10-65	--	T	50	2	6	C*
				FLORIDA						
FUA	1	--	--	--	U	T	--	--	--	--
FUA	2	--	--	--	U	T	--	--	--	--
FUA	3	--	--	--	U	T	--	--	--	--
FUA	4	--	--	--	U	T	--	--	--	--
FUB	1	--	--	--	U	T	--	--	--	--
FUW	1	METAMORPHIC FINE GRAINED	4	4-49	H	W	8	--	--	--
FUW	2	METAMORPHIC FINE GRAINED	3	5-49	H	W	2	--	--	--
FUW	3	METAMORPHIC FINE GRAINED	4	8-49	H	W	3	--	--	--
FUW	4	METAMORPHIC FINE GRAINED	12	10-49	H	W	20	6	3	--
FUW	5	METAMORPHIC FINE GRAINED	6	5-49	H	W	3	--	--	--
FUW	6	METAMORPHIC FINE GRAINED	5	8-51	H	W	2	--	--	--
FUW	7	METAMORPHIC FINE GRAINED	20	9-51	H	W	.5	--	--	--
FUW	8	METAMORPHIC FINE GRAINED	15	9-50	H	W	3	--	--	--
FUW	11	METAMORPHIC FINE GRAINED	1	-52	--	W	3	--	--	--
FUW	12	METAMORPHIC FINE GRAINED	2	-52	--	W	5	--	--	--
FUW	13	METAMORPHIC FINE GRAINED	12	--	--	W	13	--	--	--
FUW	14	METAMORPHIC FINE GRAINED	20	-51	H	W	8	--	--	--
FUW	15	METAMORPHIC FINE GRAINED	6	-51	H	W	9	--	--	--
FUW	16	METAMORPHIC FINE GRAINED	2	-51	--	W	9	--	--	--
FUW	17	METAMORPHIC FINE GRAINED	32	-51	T	W	10	--	--	--
FUW	18	METAMORPHIC FINE GRAINED	10	10-63	H	W	3	--	--	--
FUW	19	METAMORPHIC FINE GRAINED	0	10-63	H	W	10	--	--	C*
FUW	20	METAMORPHIC FINE GRAINED	10	11-66	H	W	2	--	--	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTITUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAILABLE
					GREENFIELD						
GRA	1	423847N0723641.1	255	USGS	1967	B	--	4	60	60	G*
GRA	2	423839N0723543.1	321	USGS	1967	B	--	4	92	91	G*
GRA	3	423822N0723528.1	305	USGS	1967	B	--	4	65	65	G*
GRB	1	423622N0723625.1	256	MDPW	1951	--	O	--	67	67	D*
GRB	3	423410N0723534.1	106	MDPW	1931	--	O	--	24	24	D*
GRB	7	423507N0723647.1	154	MDPW	1955	--	O	--	50	50	D*
GRB	8	423508N0723646.1	168	MDPW	1955	--	O	--	28	--	D
GRB	22	423829N0723438.1	345	MDPW	1955	--	O	--	31	--	D*
GRB	35	423521N0723753.1	286	MDPW	1950	--	O	--	14	--	D*
GRB	42	423852N0723347.1	349	MDPW	1961	--	O	--	73	--	D*
GRB	43	423822N0723424.1	339	MDPW	1961	--	O	--	9	9	D*
GRB	44	423701N0723533.1	281	MDPW	1961	--	O	--	79	78	D*
GRB	45	423651N0723533.1	280	MDPW	1961	--	O	2	55	55	D*
GRB	46	423653N0723546.1	279	MDPW	--	--	O	--	42	43	D*
GRB	47	423636N0723511.1	262	MDPW	1961	--	O	--	41	41	D*
GRB	48	423533N0723708.1	174	MDPW	1961	--	O	2	154	154	D*
GRB	49	423608N0723656.1	158	MDPW	1961	--	O	2	49	49	D*
GRB	50	423622N0723647.1	164	MDPW	1961	--	O	2	17	17	D
GRB	51	423623N0723645.1	215	MDPW	1962	B	X	2	44	36	D
GRB	52	423639N0723615.1	253	MDPW	1961	--	O	2	24	24	D
GRB	53	423641N0723616.1	258	MDPW	1961	B	X	2	24	6	D
GRB	54	423646N0723601.1	277	MDPW	1961	--	O	2	24	24	D*
GRB	55	423649N0723600.1	274	MDPW	1961	B	X	2	52	44	D*
GRB	56	423635N0723626.1	206	MDPW	1961	--	O	2	90	89	D*
GRB	57	423419N0723717.1	269	MDPW	1961	--	O	2	102	--	D*
GRB	58	423438N0723720.1	241	MDPW	1961	--	O	2	102	--	D*
GRB	60	423518N0723709.1	183	MDPW	1961	--	O	2	152	--	D*
GRB	61	423508N0723722.1	188	MDPW	1962	--	O	2	40	--	D
GRB	62	423450N0723717.1	227	MDPW	1963	--	O	2	101	--	D*
GRR	1	423515N0723715.1	172	MDPW	--	W	O	2	183	--	D*
GRR	2	423432N0723716.1	276	MDPW	1961	W	O	2	22	--	D*
GRR	3	423524N0723712.1	177	MDPW	--	W	O	2	104	--	D*
GRR	4	423531N0723705.1	166	MDPW	--	W	O	2	136	--	D*
GRR	5	423540N0723705.1	155	MDPW	--	W	O	2	103	--	D*
GRR	6	423544N0723705.1	180	MDPW	--	W	O	2	78	--	D*
GRR	7	423547N0723704.1	179	MDPW	--	W	O	2	5	5	D*
GRR	8	423552N0723702.1	177	MDPW	--	W	O	2	99	98	D*
GRR	9	423604N0723659.1	157	MDPW	--	W	O	2	27	--	D*
GRR	10	423616N0723655.1	162	MDPW	--	W	O	2	4	--	D*
GRR	11	423447N0723718.1	222	MDPW	1962	W	O	2	62	--	D*
GRR	12	423617N0723651.1	217	MDPW	--	W	O	2	4	--	D*
GRR	13	423625N0723644.1	236	MDPW	--	W	O	2	40	--	D*
GRR	14	423630N0723636.1	230	MDPW	--	--	O	2	10	10	D*
GRR	15	423634N0723630.1	221	MDPW	--	W	O	2	40	--	D*
GRR	16	423639N0723623.1	205	MDPW	--	W	O	2	40	--	D*
GRR	17	423637N0723617.1	252	MDPW	--	W	O	2	16	--	D
GRR	18	423706N0723527.1	275	MDPW	1959	--	O	2	13	--	D*
GRR	19	423715N0723521.1	287	MDPW	1961	--	O	2	6	6	D*
GRR	20	423718N0723515.1	255	MDPW	1961	--	O	2	12	12	D*
GRR	21	423729N0723506.1	271	MDPW	1961	--	O	2	48	--	D*
GRR	22	423746N0723400.1	317	MDPW	1961	--	O	2	5	5	D*
GRR	23	423759N0723451.1	272	MDPW	1961	--	O	2	48	48	D*
GRR	24	423825N0723420.1	367	MDPW	1961	--	O	2	50	--	D*
GRR	25	423835N0723408.1	381	MDPW	1961	--	O	2	40	40	D*
GRR	26	423840N0723402.1	332	MDPW	1961	--	O	2	50	50	D*
GRR	27	423651N0723543.1	274	MDPW	1961	--	O	2	20	--	D*
GRR	28	423655N0723531.1	281	MDPW	1961	--	O	2	53	--	D*
GRR	29	423649N0723531.1	283	MDPW	1961	--	O	2	7	--	D*
GRR	30	423639N0723515.1	262	MDPW	1961	--	O	2	58	57	D*
GRR	31	423629N0723459.1	264	MDPW	1961	--	O	2	45	--	D*
GRR	32	423626N0723442.1	268	MDPW	1961	--	O	2	58	--	D*
GRR	33	423629N0723435.1	276	MDPW	1961	--	O	2	48	--	D*
GRR	34	423636N0723429.1	271	MDPW	1961	--	O	2	37	--	D*
GRR	35	423647N0723410.1	273	MDPW	1961	--	O	2	34	--	D*
GRW	1	423847N0723712.1	240	GREENFIELD TOWN	1913	D	--	480	27	--	--
GRW	4	423642N0723446.1	275	GREENFIELD ICE	1932	C	X	8	281	40	D*
GRW	13	423844N0723401.1	330	GREENFIELD TOWN	1934	V	P	2	53	--	D*
GRW	16	423512N0723739.1	210	SUNNY FARMS INC	1951	C	X	6	165	55	--
GRW	17	423835N0723359.1	375	PRUELT ARTHUR J	1946	C	X	6	125	11	D*

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				GREENFIELD						
GRA	1	SILTY SAND	7	10-67	U	T	--	--	--	--
GRA	2	SILTY CLAY	6	10-67	U	T	--	--	--	--
GRA	3	CLAY	17	10-67	U	T	--	--	--	--
GRB	1	SAND AND GRAVEL	3	-51	U	T	--	--	--	--
GRB	3	SAND AND GRAVEL	0	-31	U	T	--	--	--	--
GRB	7	SILTY SAND AND GRAVEL	8	4-55	U	T	--	--	--	--
GRB	8	SANDSTONE	21	4-55	--	T	--	--	--	--
GRB	22	FINE GRAINED SAND AND GRAVEL	16	4-55	U	T	--	--	--	--
GRB	35	--	--	--	U	T	--	--	--	--
GRB	42	COARSE GRAINED SAND AND GRAVEL	8	3-61	U	T	--	--	--	--
GRB	43	SILTY SAND	3	4-61	U	T	--	--	--	--
GRB	44	FINE GRAINED SAND	1	4-61	U	T	--	--	--	--
GRB	45	FINE GRAINED SILTY SAND	1	3-61	U	T	--	--	--	--
GRB	46	--	--	--	U	T	--	--	--	--
GRB	47	GRAVELLY SILTY SAND	1	3-61	--	T	--	--	--	--
GRB	48	SILTY SAND AND GRAVEL	15	8-61	U	T	--	--	--	--
GRB	49	--	--	--	U	T	--	--	--	--
GRB	50	--	--	--	U	T	--	--	--	--
GRB	51	--	--	--	U	T	--	--	--	--
GRB	52	--	--	--	--	T	--	--	--	--
GRB	53	--	--	--	U	T	--	--	--	--
GRB	54	--	--	--	U	T	--	--	--	--
GRB	55	--	--	--	U	T	--	--	--	--
GRB	56	--	2	8-61	U	T	--	--	--	--
GRB	57	FINE GRAINED SAND	59	11-61	U	T	--	--	--	--
GRB	58	--	--	--	U	T	--	--	--	--
GRB	60	SILTY CLAY	10	12-61	--	T	--	--	--	--
GRB	61	--	5	1-62	U	T	--	--	--	--
GRB	62	FINE GRAINED SILTY SAND	21	2-68	U	T	--	--	--	--
GRR	1	SILTY SILTY SAND	9	--	U	T	--	--	--	--
GRR	2	--	--	--	U	T	--	--	--	--
GRR	3	--	--	--	U	T	--	--	--	--
GRR	4	--	--	--	U	T	--	--	--	--
GRR	5	SILTY SAND AND GRAVEL	5	--	U	T	--	--	--	--
GRR	6	SILTY SAND AND GRAVEL	14	--	U	T	--	--	--	--
GRR	7	--	--	--	U	T	--	--	--	--
GRR	8	SILTY CLAY	15	--	U	T	--	--	--	--
GRR	9	FINE GRAINED SAND AND GRAVEL	5	--	U	T	--	--	--	--
GRR	10	--	--	--	U	T	--	--	--	--
GRR	11	--	--	--	U	T	--	--	--	--
GRR	12	--	--	--	U	T	--	--	--	--
GRR	13	--	--	--	U	T	--	--	--	--
GRR	14	--	--	--	U	T	--	--	--	--
GRR	15	--	--	--	U	T	--	--	--	--
GRR	16	CLAYEY SAND AND GRAVEL	6	--	U	T	--	--	--	--
GRR	17	--	--	--	U	T	--	--	--	--
GRR	18	CLAYEY SILTY SAND	0	12-59	U	T	--	--	--	--
GRR	19	--	--	--	U	T	--	--	--	--
GRR	20	SILTY SAND	0	1-61	U	T	--	--	--	--
GRR	21	MEDIUM GRAINED SAND	1	1-61	U	T	--	--	--	--
GRR	22	--	--	--	U	T	--	--	--	--
GRR	23	FINE GRAINED SAND AND GRAVEL	+2	1-61	U	T	--	--	--	--
GRR	24	--	--	--	U	T	--	--	--	--
GRR	25	--	--	--	U	T	--	--	--	--
GRR	26	SILTY SAND AND GRAVEL	2	2-61	U	T	--	--	--	--
GRR	27	--	--	--	U	T	--	--	--	--
GRR	28	--	--	--	U	T	--	--	--	--
GRR	29	--	--	--	U	T	--	--	--	--
GRR	30	--	--	--	U	T	--	--	--	--
GRR	31	--	--	--	U	T	--	--	--	--
GRR	32	--	--	--	U	T	--	--	--	--
GRR	33	--	--	--	U	T	--	--	--	--
GRR	34	--	--	--	U	T	--	--	--	--
GRR	35	--	--	--	U	T	--	--	--	--
GRW	1	--	--	--	--	W	--	--	--	--
GRW	4	REDBED SANDSTONE	25	-32	N	W	50	12	--	--
GRW	13	GRAVEL	2	1-34	--	T	70	1	1	--
GRW	16	SANDSTONE	+3	-51	N	W	9	--	--	P*
GRW	17	SANDSTONE	30	-46	--	W	20	--	--	C*

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTITUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAILABLE
				GREENFIELD--CONTINUED							
GRW	19	423840N0723422.1	330	GREENFIELD TOWN	1947	--	G	16	122	--	D*
GRW	20	423844N0723420.1	330	GREENFIELD TOWN	1947	--	G	16	84	--	D*
GRW	33	423900N0723347.1	355	GREENFIELD TAP	--	--	X	--	260	53	--
GRW	34	423608N0723749.1	190	GREENFIELD TOWN	1966	W	P	2	188	--	D*
GRW	35	423612N0723752.1	190	GREENFIELD TOWN	1966	W	P	2	176	--	D*
GRW	36	423615N0723759.1	200	GREENFIELD TOWN	1966	W	P	2	94	--	D*
GRW	37	423753N0723708.1	200	GREENFIELD TOWN	1966	W	S	2	103	--	D
GRW	38	423758N0723707.1	200	GREENFIELD TOWN	1966	W	S	2	95	--	D*
GRW	39	423753N0723710.1	200	GREENFIELD TOWN	1966	W	S	2	128	--	D
GRW	40	423801N0723805.1	290	GREENFIELD TOWN	1966	W	P	2	62	--	D*
GRW	41	423803N0723733.1	275	GREENFIELD TOWN	1966	W	P	2	147	--	D*
GRW	42	423845N0723630.1	260	GREENFIELD TOWN	1966	W	P	2	35	--	D*
GRW	43	423818N0723646.1	245	GREENFIELD TOWN	1966	W	P	2	207	--	D*
GRW	44	423754N0723654.1	200	GREENFIELD TOWN	1966	W	S	2	53	--	D*
GRW	45	423800N0723629.1	240	GREENFIELD TOWN	1966	W	P	2	38	--	D*
GRW	46	423820N0723703.1	220	GREENFIELD TOWN	1966	W	S	2	111	--	D*
GRW	47	423821N0723657.1	224	GREENFIELD TOWN	1966	W	S	2	109	--	D*
GRW	48	423823N0723650.1	228	GREENFIELD TOWN	1966	W	S	2	98	--	D*
GRW	49	423833N0723625.1	256	GREENFIELD TOWN	1966	W	S	2	48	--	D*
GRW	50	423712N0723608.1	220	GREENFIELD TOWN	1966	W	S	2	72	--	D*
GRW	51	423747N0723516.1	255	GREENFIELD TOWN	1966	W	S	2	115	--	D*
GRW	52	423809N0723522.1	280	GREENFIELD TOWN	1966	W	P	2	83	--	D*
GRW	53	423717N0723602.1	220	GREENFIELD TOWN	1966	W	S	2	68	--	D*
GRW	54	423840N0723426.1	330	GREENFIELD TOWN	1956	--	G	16	81	--	D
GRW	55	423644N0723810.1	235	GREENFIELD TOWN	1958	--	G	--	99	--	D
GRW	56	423844N0723422.1	310	GREENFIELD TOWN	1955	W	P	2	45	90	D
GRW	57	423817N0723742.1	213	GREENFIELD TOWN	1967	W	S	2	133	--	D*
GRW	58	423751N0723707.1	197	GREENFIELD TOWN	1967	W	S	2	104	--	D
GRW	59	423755N0723708.1	200	GREENFIELD TOWN	1967	W	S	2	96	--	D
GRW	60	423757N0723708.1	200	GREENFIELD TOWN	1967	W	S	2	92	--	D
GRW	61	423819N0723720.1	220	GREENFIELD TOWN	1967	W	S	2	120	--	D*
GRW	62	423823N0723718.1	220	GREENFIELD TOWN	1967	W	S	2	117	--	D*
GRW	65	423753N0723708.2	200	GREENFIELD TOWN	1967	C	S	8	133	133	D*
				HAWLEY							
HMW	3	423622N0725453.1	700	GORDON DICK	1951	--	X	4	106	--	--
HMW	4	423525N0725620.1	1020	SINSIGALA MIKLA	1964	H	X	6	125	30	--
HMW	5	423421N0725241.1	1750	THEWER HENRY G	1963	--	X	6	138	6	--
HMW	6	423354N0725705.1	1390	TAYLOR MERTON	1968	H	X	6	250	4	--
				HEATH							
HNW	1	424026N0724912.1	1670	HEATH TOWN	1950	C	X	6	145	7	--
HNW	4	424105N0725024.1	1340	BAILEY H C	1966	--	X	6	85	14	--
HNW	5	424115N0724935.1	1640	DEUTSCH ERWIN	1966	--	X	6	175	20	--
HNW	6	424312N0725128.1	1590	TROTTON ARTHUR	1965	--	X	6	300	109	--
HNW	7	424155N0725109.1	1360	HEUBNER FRED	1966	--	X	6	115	25	--
HNW	8	424146N0725102.1	1560	VREELAND VICTOR	1966	--	X	6	145	10	--
HNW	9	424124N0725035.1	1480	BURRINGTON PAUL	1950	H	X	6	80	15	--
HNW	10	424357N0724900.1	1605	CROWNINGSHIELD	--	D	W	36	10	--	--
HNW	11	424247N0724932.1	1545	--	--	D	W	24	22	--	--
HNW	12	424204N0724937.1	1395	THANE	--	D	O	--	18	--	--
HNW	13	424403N0725136.1	1620	--	--	D	O	36	6	--	--
				LEYDEN							
LUW	3	423955N0723719.1	715	METELICA JOHN	1950	D	X	72	6	3	--
LUW	4	424018N0723743.1	735	COBB HARRY	1944	C	X	6	115	2	--
LUW	5	424035N0723749.1	785	MUICA LEWIS	1965	H	X	6	220	53	--
LUW	6	424037N0723750.1	775	MUICA LEWIS	1948	C	X	8	76	36	--
LUW	8	424042N0723644.1	970	HERRON DONALD C	1952	--	X	8	360	13	--
LUW	9	424202N0723754.1	980	TOWN LEYDEN	1964	A	X	4	360	4	--
LUW	10	424218N0723728.1	825	MASON N	1963	A	X	6	150	1	--
LUW	11	423955N0723716.1	690	LYMAN K H	1961	A	X	8	115	15	--
LUW	12	424154N0723750.1	960	BAKER DONALD	1968	--	X	6	260	12	--
				MONROE							
M3W	1	424319N0725945.1	1760	MONROE PRISON CAMP	1957	C	X	8	350	--	--
M3W	2	424352N0725747.1	2030	SNOW ELLSWORTH	1944	D	O	48	20	20	--
M3W	3	424350N0725745.1	2030	OAKES RICHARD	1960	C	X	6	80	3	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				GREENFIELD--CONTINUED						
GRW	19	SANDY GRAVEL	5	6-47	P	W	480	21	12	M*
GRW	20	SANDY GRAVEL	12	9-47	P	W	412	34	--	--
GRW	33	SANDSTONE	--	--	N	W	20	--	--	--
GRW	34	--	--	--	U	T	--	--	--	--
GRW	35	--	--	--	U	T	--	--	--	--
GRW	36	--	--	--	U	T	--	--	--	--
GRW	37	SANDY GRAVEL	+15	9-66	U	T	75	--	--	P*
GRW	38	SAND	+10	9-66	U	T	--	--	--	--
GRW	39	MEDIUM GRAINED SAND AND GRAVEL	+15	9-66	U	T	50	--	--	P*
GRW	40	--	--	--	U	T	--	--	--	--
GRW	41	--	--	--	U	T	--	--	--	--
GRW	42	--	--	--	U	T	--	--	--	--
GRW	43	--	--	--	U	T	--	--	--	--
GRW	44	FINE GRAINED SAND	+10	9-66	U	T	25	--	--	P*
GRW	45	--	--	--	U	T	--	--	--	--
GRW	46	SAND AND GRAVEL	7	9-66	U	T	30	--	--	P*
GRW	47	MEDIUM GRAINED SAND AND GRAVEL	6	9-66	U	T	40	--	--	--
GRW	48	MEDIUM GRAINED SAND	2	9-66	U	T	50	--	--	P*
GRW	49	FINE GRAINED SAND AND GRAVEL	18	9-66	U	T	50	--	--	P*
GRW	50	MEDIUM GRAINED SAND AND GRAVEL	+2	9-66	U	T	20	--	--	P*
GRW	51	FINE GRAINED SAND AND GRAVEL	+9	9-66	U	T	3	--	--	--
GRW	52	--	--	--	U	T	--	--	--	--
GRW	53	MEDIUM GRAINED SAND AND GRAVEL	+9	9-66	U	T	60	--	--	P*
GRW	54	UNCONSOLIDATED SAND AND GRAVEL	--	--	--	W	1040	--	--	C*
GRW	55	UNCONSOLIDATED SAND AND GRAVEL	--	--	--	W	200	--	--	C*
GRW	56	UNCONSOLIDATED SAND AND GRAVEL	5	6-55	P	T	75	--	--	--
GRW	57	UNCONSOLIDATED SAND AND GRAVEL	+2	6-67	U	T	20	--	--	P*
GRW	58	UNCONSOLIDATED SAND AND GRAVEL	+16	6-67	U	T	65	--	--	P*
GRW	59	MEDIUM GRAINED SAND	+9	6-67	U	T	30	--	--	P*
GRW	60	FINE GRAINED SAND AND GRAVEL	+10	6-67	U	T	60	--	--	P*
GRW	61	FINE GRAINED SAND	+1	6-67	U	T	5	--	--	P*
GRW	62	SAND	2	6-67	U	T	--	--	--	--
GRW	65	UNCONSOLIDATED SAND AND GRAVEL	+15	7-67	--	T	670	52	210	P*
				HAWLEY						
HMW	3	SAND	--	--	H	W	35	--	--	--
HMW	4	IGNEOUS, GRANULAR	18	5-64	H	W	15	--	2	--
HMW	5	--	13	10-63	H	W	4	--	--	--
HMW	6	--	--	--	H	W	1	--	--	C*
				HEATH						
HNW	1	--	12	-50	--	W	30	--	--	--
HNW	4	--	20	8-66	H	W	6	--	5	--
HNW	5	--	35	8-66	H	W	6	--	15	--
HNW	6	--	--	--	H	W	2	--	--	--
HNW	7	--	30	8-66	H	W	6	--	10	--
HNW	8	--	25	8-66	H	W	3	--	8	--
HNW	9	--	--	--	H	W	5	--	--	C*
HNW	10	TILL	4	5-68	H	W	--	--	--	--
HNW	11	TILL	7	5-68	U	O	--	--	--	--
HNW	12	TILL	--	--	S	W	--	--	--	C*
HNW	13	GRAVELLY TILL	3	5-68	H	W	--	--	--	--
				LEYDEN						
LUW	3	INTERBEDDED METAMORPHIC FINE GRAINED	3	--	H	W	5	--	--	P*
LUW	4	INTERBEDDED METAMORPHIC FINE GRAINED	7	--	S	W	18	--	--	P*
LUW	5	INTERBEDDED METAMORPHIC FINE GRAINED	18	3-65	I	W	25	3	8	--
LUW	6	INTERBEDDED METAMORPHIC FINE GRAINED	14	--	--	U	.5	--	--	P*
LUW	8	INTERBEDDED METAMORPHIC FINE GRAINED	16	--	H	W	2	--	--	--
LUW	9	INTERBEDDED METAMORPHIC FINE GRAINED	25	--	P	W	5	--	--	--
LUW	10	INTERBEDDED METAMORPHIC FINE GRAINED	6	--	S	W	2	--	--	--
LUW	11	INTERBEDDED METAMORPHIC FINE GRAINED	5	--	H	W	3	--	--	--
LUW	12	--	--	--	H	W	3	--	--	C*
				MONROE						
M3W	1	--	--	--	T	W	5	--	--	P*
M3W	2	TILL	--	--	H	W	--	--	--	C*
M3W	3	--	--	--	H	W	3	--	--	C*

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		LOCATION	ALTI-TUDE OF LSD (FT.)	OWNER	DATE DRILLED (YEAR)	METHOD DRILLED	WELL FINISH	CASING DIAM-ETER (IN.)	WELL DEPTH (FT.)	DEPTH TO CONSOL. ROCK (FT.)	LOG AVAIL-ABLE
				ROWE							
ROW	11	424222N0725133.1	1710	CORNISH WILLIAM	1965	--	X	6	100	36	--
ROW	12	424242N0725511.1	1780	RAINBOW HILL	1956	C	X	6	217	10	--
ROW	13	424338N0725542.1	1150	YANKEE ATOMIC	1957	C	X	8	300	82	--
ROW	14	424144N0725357.1	1350	GROEGER HERBERT	1964	--	X	6	145	10	--
ROW	15	424135N0725401.1	1350	RUTH J DAVID	1964	--	X	6	264	11	--
ROW	16	424020N0725652.1	1445	BENT ROY	1964	A	X	6	174	20	--
ROW	17	424220N0725441.1	1520	SCRIVENS FRED	1963	--	X	6	105	18	--
ROW	18	424128N0725356.1	1385	STANFORD E E	1965	--	X	6	260	179	--
ROW	19	424207N0725524.1	1620	SIBLEY CLIFFORD	1964	A	X	6	207	18	--
ROW	20	424101N0725535.1	1280	ANDOGNINI CARL	1964	--	X	6	114	10	--
ROW	21	424204N0725524.1	1625	THONG FAY	1964	--	X	6	129	25	--
ROW	22	424207N0725404.1	1525	STICKNEY R	1964	--	X	6	368	25	--
ROW	23	424146N0725403.1	1340	STETSON WENDELL	1964	--	X	6	135	15	--
ROW	24	424348N0725310.1	1905	HAMMOND E	1966	--	X	6	100	10	--
ROW	25	424233N0725447.1	1560	WILLIAMS NANCY	1966	--	X	6	220	120	--
ROW	26	424152N0725558.1	1560	COOLIDGE ROSENA	1964	--	X	6	130	10	--
ROW	27	424356N0725233.1	1940	SHUMWAY RICHARD	1964	--	X	6	117	26	--
ROW	28	424205N0725557.1	1600	ESSERT PAUL	1964	--	X	6	280	25	--
ROW	29	424235N0725515.1	1730	MILLER WALTER	1965	--	X	6	205	19	--
ROW	30	424128N0725410.1	1245	BJORK WENDELL	1952	C	X	6	118	30	--
ROW	31	424202N0725525.1	1625	SIBLEY CLIFFORD	1957	C	X	6	127	30	--
				SAVOY							
SFB	21	423409N0730211.1	1757	MDPW	1959	--	O	--	4	--	D
SFW	1	423801N0730238.1	1998	LAPARDO MICHAEL	1949	C	X	6	111	16	--
SFW	3	423657N0730000.1	1668	ZOLLO F J	1949	C	X	6	80	2	--
SFW	6	423410N0725944.1	1910	SAVOY SCHOOL 7	--	C	--	6	45	--	--
				SHELBURNE							
SKB	1	423505N0724206.1	550	MDPW	1950	--	O	--	14	14	D
SKB	17	423523N0724124.1	605	MDPW	1950	--	O	--	9	10	D
SKW	2	423434N0724140.1	700	WELLS F E & F W	1924	D	W	--	12	--	--
SKW	10	423552N0724114.1	935	GARDINER	1966	A	X	--	260	100	--
SKW	11	423702N0724018.1	875	FRIEND J B	1951	C	X	6	203	5	--
SKW	12	423702N0724018.2	875	FRIEND J B	1818	D	X	72	22	3	--
SKW	13	423505N0724132.1	600	VANGWILDER GEORGE	1967	--	X	6	300	17	--
SKW	14	423607N0724110.1	1000	STREETER RICHARD	1967	--	X	6	210	128	--
SKW	15	423456N0724152.1	580	SHIPPEE JOHN	1965	--	X	6	160	33	--
SKW	16	423556N0724114.1	935	HELBIG R C	1860	D	W	60	26	--	--
SKW	17	423544N0724131.1	800	HOUGHTON T	1962	A	X	6	174	105	--
SKW	18	423605N0724056.1	940	WILLIAMS FRANK	1945	C	X	6	167	4	--
SKW	19	423540N0724055.1	720	ANCHORAGE HOME	1965	A	X	6	500	80	--
SKW	20	423739N0724125.1	1205	REYNOLDS STANLEY	1947	C	X	6	100	30	--
SKW	21	423736N0724113.1	1110	REYNOLDS STANLEY	1945	C	X	6	145	--	--
SKW	22	423556N0724114.2	935	HELBIG R C	1966	--	X	6	175	26	--
SKW	23	423555N0724116.1	930	HELBIG R C	--	D	W	48	15	--	--
SKW	24	423726N0723939.1	960	VALLEY VIEW FARM	1967	--	X	6	260	8	--
SKW	25	423457N0724147.1	600	WISHART ROBERT	--	--	X	6	96	5	--
SKW	26	423504N0724237.1	530	BARNARD EDWARD	1964	--	X	6	200	46	--
SKW	27	423718N0724357.1	550	SHELBURNE FALLS	1966	W	P	2	23	--	D
SKW	28	423718N0724359.1	520	SHELBURNE FALLS	1966	W	P	2	24	25	D
SKW	29	423717N0724404.1	440	SHELBURNE FALLS	1966	W	P	2	16	18	D
SKW	30	423717N0724406.1	430	SHELBURNE FALLS	1966	W	P	2	15	18	D
SKW	31	423717N0724407.1	430	SHELBURNE FALLS	1966	W	P	2	12	14	D
SKW	32	423453N0724115.1	490	BATES AVERY	--	D	--	--	20	80	--
SKW	34	423510N0724124.1	535	NICHOLS ROBERT	--	--	X	--	--	--	--

TABLE 10. DESCRIPTION OF WELLS AND BORINGS--CONTINUED

LOCAL WELL NUMBER		WATER-BEARING MATERIAL OF MAJOR AQUIFER	WATER LEVEL (FT.)	DATE WATER LEVEL MEAS.	WATER USE	WELL USE	YIELD (GPM)	DRAW-DOWN (FT.)	PUMPING PERIOD (HOURS)	QW TYPE
				ROWE						
ROW	11	--	20	7-65	H	W	5	90	1	--
ROW	12	--	--	--	H	W	7	--	--	P*
ROW	13	--	--	--	C	W	8	--	--	P*
ROW	14	--	8	4-64	H	W	5	125	10	--
ROW	15	--	10	10-64	H	W	2	200	2	C*
ROW	16	--	40	10-64	H	W	3	100	1	--
ROW	17	--	8	12-63	H	W	5	90	2	--
ROW	18	--	40	6-65	H	W	4	--	--	--
ROW	19	--	10	4-64	H	W	2	200	20	--
ROW	20	--	30	4-64	H	W	5	114	10	--
ROW	21	--	10	4-64	H	W	3	100	20	--
ROW	22	--	40	4-64	H	W	1	300	30	--
ROW	23	--	15	4-64	H	W	30	80	20	--
ROW	24	--	25	8-66	H	W	5	--	--	--
ROW	25	--	10	8-66	H	W	20	--	--	--
ROW	26	--	10	4-64	H	W	4	100	20	--
ROW	27	--	40	10-64	H	W	7	100	1	--
ROW	28	--	12	10-64	H	W	2	250	2	--
ROW	29	--	60	7-65	H	W	2	200	1	--
ROW	30	--	4	-52	H	W	8	--	--	--
ROW	31	--	8	-57	H	W	2	--	--	C*
				SAVOY						
SFB	21	SAND	2	3-59	U	T	--	--	--	--
SFW	1	METAMORPHIC FINE GRAINED	11	10-49	H	W	8	--	--	--
SFW	3	METAMORPHIC FINE GRAINED	20	9-49	H	W	14	--	--	--
SFW	6	--	--	--	P	W	5	2	168	P*
				SHELBURNE						
SKB	1	--	--	--	U	T	--	--	--	--
SKB	17	--	--	--	U	T	--	--	--	--
SKW	2	TILL	--	--	H	W	--	--	--	--
SKW	10	INTERBEDDED METAMORPHIC FINE GRAINED	--	--	H	W	9	--	--	--
SKW	11	--	10	--	H	W	5	--	--	--
SKW	12	INTERBEDDED METAMORPHIC FINE GRAINED	14	--	H	W	--	--	--	P*
SKW	13	INTERBEDDED METAMORPHIC FINE GRAINED	290	3-67	H	W	5	--	--	--
SKW	14	INTERBEDDED METAMORPHIC FINE GRAINED	--	--	H	W	20	--	--	--
SKW	15	INTERBEDDED METAMORPHIC FINE GRAINED	120	8-65	H	W	7	20	4	--
SKW	16	TILL	9	--	H	W	--	--	--	P*
SKW	17	INTERBEDDED METAMORPHIC FINE GRAINED	40	-62	H	W	5	--	--	--
SKW	18	INTERBEDDED METAMORPHIC FINE GRAINED	15	-45	S	W	5	--	--	P*
SKW	19	INTERBEDDED METAMORPHIC FINE GRAINED	27	-65	T	W	4	--	--	P*
SKW	20	INTERBEDDED METAMORPHIC FINE GRAINED	7	-47	S	W	25	--	--	--
SKW	21	INTERBEDDED METAMORPHIC FINE GRAINED	F	-45	S	W	--	--	--	--
SKW	22	INTERBEDDED METAMORPHIC FINE GRAINED	16	-66	H	W	3	--	--	--
SKW	23	UNCONSOLIDATED SEDIMENT	3	--	H	W	--	--	--	--
SKW	24	INTERBEDDED METAMORPHIC FINE GRAINED	15	7-67	I	W	7	100	8	--
SKW	25	INTERBEDDED METAMORPHIC FINE GRAINED	--	--	H	W	--	--	--	--
SKW	26	INTERBEDDED METAMORPHIC FINE GRAINED	F	--	H	W	2	--	--	--
SKW	27	BOULDERY SAND AND GRAVEL	7	1-66	U	T	--	--	--	--
SKW	28	CLAYEY SAND AND GRAVEL	8	1-66	U	T	--	--	--	--
SKW	29	--	--	--	U	T	--	--	--	--
SKW	30	--	--	--	U	T	--	--	--	--
SKW	31	--	--	--	U	T	--	--	--	--
SKW	32	TILL	--	--	U	U	--	--	--	P*
SKW	34	--	--	--	H	W	--	--	--	C*

Table 11.--Logs of selected wells and borings

(Depths are given in feet below land surface)

	Depth	
ASHFIELD 2.		
Gravel	0	-110
ASHFIELD A1.		
Very fine sand, brown	0	- 12
Fine to medium sand, some gravel to 3/8 inch	12	- 17
Fine to medium sand, some gravel to 1 inch	17	- 29
Coarse sand and gravel	29	- 31
Sandy pebbly clay, dark	31	- 43
ASHFIELD A2.		
Medium to coarse gravel, some boulders, gray	0	- 12
Fine to medium sand, some silt	12	- 21
Gravel	21	- 23
Very fine to medium sand	23	- 37
Medium to coarse sand	37	- 45
Very fine to fine sand	45	- 47
Fine to medium sand, brown	47	- 97
ASHFIELD A3.		
Fine to medium sand and gravel	0	- 7
Sand grading to clay, silt	7	- 12
Very fine sand and silt	12	- 43
Clay	43	- 45
Fine to medium sand	45	- 64
ASHFIELD B12.		
Sand and scattered gravel, loose	0	- 2
Clay, sand	2	- 8
Sandy clay, scattered gravel	8	- 14
Refusal		at 14
BERNARDSTON B1.		
Sand and gravel	0	- 6
Fine sand and clay	6	- 15
Sand and gravel, trace of clay, compact	15	- 22
Fine sand, trace of clay	22	- 72
Sand and gravel, some clay, compact	72	- 75
BUCKLAND 8.		
Fine sand and silt, alluvium	0	- 5
Coarse gravel and boulders	5	- 10
Clay, light gray	10	- 30
Silty gray clay and clayey silt	30	- 60
Till	60	- 67
BUCKLAND 9.		
Boulders, sand and gravel	0	- 10
Silt and fine to medium sand, medium to coarse sand lenses	10	- 20
Silt and fine to medium sand, dirty brown	20	- 62
Schist	62	- 64
BUCKLAND 23.		
Fine to medium coarse sand and gravel	0	- 12
Sand and gravel, hard	12	- 23
Silty clay, some gravel	23	- 44
BUCKLAND A1.		
Sandy silt	0	- 10
Medium sand and gravel	10	- 14
Clay and silt, gray	14	- 60
Silt and sand, sandier toward bottom	60	- 79
Refusal		at 79
BUCKLAND A2.		
Alluvium	0	- 2
Coarse gravel and cobbles	2	- 10
Silt and clay, gray	10	- 22
Fine silty sand, gray	22	- 97
BUCKLAND A3.		
Topsoil and sand	0	- 2
Gravel and boulders	2	- 4
Sand	4	- 6
Boulders	6	- 8
Sand, some fine clay layers	8	- 23
Gravel	23	- 24
Sand	24	- 28
Tight clay, blue	28	- 29
Refusal		at 29
BUCKLAND A4.		
Alluvium	0	- 2
Coarse gravel and boulders	2	- 11
Silty clay	11	- 20
Tight sand and clay	20	- 21
Refusal		at 21

	Depth	
BUCKLAND B1.		
Topsoil	0	- 1
Sand	1	- 2
Clayey silt, medium compact	2	- 10
BUCKLAND B2.		
Sandy topsoil	0	- 1
Coarse sand, firm	1	- 7.5
Coarse sand and gravel, hard	7.5	- 13.5
Sharp sand, firm	13.5	- 18
Cemented sand and little gravel, hard	18	- 26
BUCKLAND B4.		
Coarse sand and gravel, hard	0	- 2.5
Fine sand, firm	2.5	- 11.5
Fine sand and little fine gravel, hard	11.5	- 14.5
Sand and gravel, boulders, hard	14.5	- 17.5
BUCKLAND B7.		
Topsoil	0	- 3
Medium to fine sand, some medium gravel and boulders	3	- 6
Fine sand and some silt, compact	6	- 10
Medium sand and gravel	10	- 17
Fine sand, some silt, trace of fine gravel, compact	17	- 20
BUCKLAND B8.		
Fine sand and some silt, loose	0	- 7
Gravel, loose	7	- 12
Fine sand, silt, and gravel, compact	12	- 17
CHARLEMONT 3.		
Till	0	- 21
Schist	21	- 50
Shale	50	- 54
CHARLEMONT 4.		
Sand and gravel	0	- 54
CHARLEMONT 12.		
Fine silt, brown	0	- 5
Large boulders and gravel	5	- 10
Sand and gravel	10	- 20
Medium to coarse sand, some silt and gravel	20	- 25
Medium to coarse sand, some fine sand and silt, minor clay, 1 inch gravel lenses	25	- 35
Fine sandy silt, brown	35	- 40
Medium to fine sand, some silt, some 1 inch pea gravel lenses	40	- 55
CHARLEMONT A1.		
Topsoil	0	- 1
Fine to medium sand, light brown	1	- 9
Gravel	9	- 14
Clay, gray	14	- 37
Silt, gray	37	- 47
Very fine sand grading to fine to medium sand	47	- 92
CHARLEMONT B3.		
Sand and gravel, loamy	0	- 3
Sand and gravel, cemented	3	- 9
Coarse sand, firm	9	- 11
Coarse sand and gravel, little clay	11	- 14
Coarse sand and gravel, hard, gray	14	- 16
Sand and gravel, hard, cemented	16	- 21
CHARLEMONT B7.		
Coarse sand and gravel, dirty	0	- 1
Sharp sand, firm, yellow	1	- 8
Coarse sand and gravel, cemented	8	- 10
Refusal		at 10
CHARLEMONT B8.		
Fine sand and fill, loose	0	- 8
Coarse sand and gravel, boulders, firm	8	- 17.5
Sharp sand and little fine gravel, loose	17.5	- 24
Fine sand and little fine gravel, compact	24	- 35
Fine sand and gravel, hard, little clay, few boulders	35	- 40
CHARLEMONT B10.		
Sand and gravel, loose	0	- 5
Very fine sand, some clay, compact	5	- 15
Refusal, ledge		at 15

	Depth	
CHARLEMONT B11.		
Coarse, dirty sand, loose	0	- 8
Wood	8	- 10
Coarse sand, firm	10	- 19
Sand and very little fine gravel, hard, compact	19	- 25
CHARLEMONT B12.		
Coarse sand and gravel and boulders, firm	0	- 3
Fine sand and mica, little fine gravel and clay, loose	3	- 18
Medium sand and gravel, hard	18	- 25
Coarse sand and gravel, clay, hard	25	- 29
Refusal		at 29
CHARLEMONT B24.		
Fine sand and gravel, boulders, hard	0	- 10
Refusal, ledge or boulder		at 10
COLRAIN 8.		
Medium sand and fine to medium gravel, moderately rounded	0	- 2.5
Very fine sand, some coarse gravel and cobbles	2.5	- 32.5
COLRAIN 9.		
Topsoil	0	- 2
Coarse gravel and small boulders	2	- 27
Fine sand	27	- 35
Coarse gravel and large boulders	35	- 42
COLRAIN 10.		
Topsoil	0	- 3
Coarse to medium sand and gravel	3	- 10
Coarse sand and gravel, boulders, trace of clay	10	- 30
Coarse and fine sand, traces of gravel	30	- 35
Coarse sand and gravel, streaks of fine sand	35	- 50
Coarse and fine sand, some silt.	50	- 65
COLRAIN A1.		
Fine silt and sand	0	- 5
Boulders and cobble	5	- 9
Coarse sand and gravel	9	- 16
Sandy clay	16	- 24
Sand, clay lenses	24	- 27
Medium to coarse sand and gravel	27	- 37
Fine to medium sand, some gravel	37	- 53
Coarse sand and gravel	53	- 56
Fine silty sand and clay, very tight	56	- 57
COLRAIN A2.		
Fine sandy silt	0	- 4
Coarse gravel and boulders	4	- 12
Medium to coarse sand and gravel, thin clay beds	12	- 49
Sandy, silty clay	49	- 50
COLRAIN A3.		
Fine sand and silt	0	- 3
Coarse gravel	3	- 9
Medium to coarse sand and gravel, brown	9	- 32
Coarse sand and gravel	32	- 59
COLRAIN A4.		
Very coarse gravel	0	- 5
Sand and gravel	5	- 30
Clay, sand and gravel	30	- 32
Rotten rocky till, angular, very coarse fragments	32	- 39
COLRAIN B4.		
Coarse sand, loose	0	- 2
Coarse sand, gravel, boulders, hard	2	- 14
Coarse sand and gravel, hard	14	- 22
Refusal		at 22
COLRAIN B5.		
Coarse sand, gravel, boulders, loose	0	- 3
Sand, gravel, boulders, cemented, hard	3	- 11.8
Sand, fine gravel, hard, compact	11.8	- 20
Sand, little fine gravel, cemented, hard	20	- 22.5
Refusal		at 22.5

Table 11.--Logs of selected wells and borings (Continued)

	Depth
COLRAIN B8.	
Coarse sand, loose	0 - 5
Coarse sand and gravel, hard	5 - 15
Coarse sand, firm	15 - 18
Coarse sand and gravel, hard	18 - 31
COLRAIN B10.	
Coarse sand, loose	0 - 2
Coarse sand and gravel, hard	2 - 45
COLRAIN B12.	
Coarse sand and gravel	0 - 7
Coarse sand and gravel, loose	7 - 17
Sand and gravel, compact	17 - 22
Refusal	at 22
COLRAIN B14.	
Coarse sand and gravel	0 - 11.5
Fine sand, firm, yellow	11.5 - 23
Sand and gravel, hard, compact	23 - 28
COLRAIN B16.	
Coarse sand, dirty	0 - 5
Coarse sand and gravel, firm	5 - 9.5
Coarse sand	9.5 - 26
Medium coarse sand and gravel, firm	26 - 31
COLRAIN B17.	
Coarse sand and gravel, boulders	0 - 7
Fine sand, compact, hard	7 - 21
Sand, very little fine gravel, cemented, hard	21 - 24
COLRAIN B18.	
Sand and gravel fill, loose	0 - 4.5
Fine sand and gravel, hard	4.5 - 15.8
Fine sand, compact	15.8 - 21.5
Sand, gravel, clay, hard	21.5 - 25.2
COLRAIN B19.	
Sand and gravel, boulders	0 - 6
Sand and gravel, hard	6 - 14.5
Sand and fine gravel, cemented, hard	14.5 - 17
Refusal	at 17
COLRAIN B25.	
Coarse sand and gravel, hard	0 - 8.5
Sand and gravel, cemented, hard	8.5 - 11
Refusal	at 11
COLRAIN B39.	
Coarse sand and gravel, boulders, hard	0 - 7
Sand and gravel, a little clay, cemented, hard	7 - 21
CONWAY B1.	
Coarse sand and boulder fill, loose, dirty	0 - 1.5
Fine sand, little clay, gravel and mica, soft	1.5 - 12
Sand and gravel, clay, hard	12 - 14
CONWAY B3.	
Loamy sand, soft	0 - 3
Coarse sand and gravel	3 - 4
Fine sand and clay, firm, yellow	4 - 24
Medium sand, coarse gravel, little clay, hard	24 - 28
Ledge or boulders	at 28
CONWAY B4.	
Loamy sand	0 - 5
Fine sand, loose, blue, very little clay	5 - 31
Fine sand, firm, very little clay	31 - 42
Sand, little fine gravel and clay, hard, compact	42 - 50
CONWAY B6.	
Fine sand and little fine gravel, firm	0 - 8
Fine sand and little clay, blue	8 - 11.5
Fine sand, firm	11.5 - 31.5
Refusal	at 31.5
CONWAY B10.	
Fine sand	0 - 2
Fine gravel	2 - 8
CONWAY B19.	
Loam	0 - 1.5
Coarse sand and gravel, boulders, hard	1.5 - 5.8
Sand, gravel and clay, hard	5.8 - 13
Fine sand, clay and a little gravel	13 - 17.5

	Depth
DEERFIELD 33.	
Sandy clay, hard	0 - 8
Mud, dirty	8 - 11
Sand and little gravel, dirty	11 - 19
Sand, gravel, and boulders, dirty	19 - 28
Coarse sand and gravel, dirty	28 - 33
Fine sand, clay, and boulders	33 - 34
DEERFIELD 54.	
Fine to medium brown sand, trace of clay	0 - 21
Fine to medium gray gravel, trace of clay	21 - 32
Fine gray silt, some clay	32 - 44
DEERFIELD 55.	
Topsoil	0 - 3
Coarse sand and gravel	3 - 15
Medium to fine sand and gravel	15 - 25
Coarse sand, fine sand, streaks of clay and bits of gravel	25 -100
DEERFIELD A1.	
Topsoil and silty clay	0 - 4
Gravel, up to 2 in	4 - 7
Sand and gravel	7 - 10
Medium sand	10 - 12
Clay, saturated, slightly drier near bottom	12 - 92
DEERFIELD A2.	
Topsoil	0 - 1
Fine clayey silt, brown	1 - 24
Clay, gray	24 - 45
Clay, scattered thin gravel lenses, faint red color below 45 ft	45 - 69
Sandy clay, red, hard, dense	69 - 70
DEERFIELD A3.	
Fine sand and silt	0 - 10
Fine sandy silt	10 - 16
Fine silt, brown, thin gravel lens at 16 ft	16 - 22
Clay, gray	22 - 75
DEERFIELD A4.	
Fine silt, micaceous, brown	0 - 17
Coarse gravely sand, brown	17 - 25
Clay, very little silt, gray, saturated	25 - 77
DEERFIELD A5.	
Fine micaceous silt, brown	0 - 12
Fine silty sand, gray to brown	12 - 17
Medium to coarse sand, finer at deptn	17 - 42
Clay, gray	42 - 88
Clay, dense, red	88 - 89
DEERFIELD A6.	
Fine micaceous silt, brown	0 - 18
Gravel and coarse sand	18 - 30
Clay, gray	30 - 37
DEERFIELD A7.	
Fine micaceous silt	0 - 6
Coarse sand and gravel	6 - 12
Clayey silt	12 - 75
Fine sand	75 - 85
Fine sandy silt, rounded pebbles	85 - 92
DEERFIELD A8.	
Silt and fine sand, brown	0 - 9
Coarse sand and gravel	9 - 12
Micaceous silt and fine sand, gray	12 - 37
DEERFIELD A9.	
Fine micaceous silt, brown	0 - 11
Medium to coarse gravel, brown	11 - 21
Silt and fine sand, gray	21 - 87
DEERFIELD A10.	
Fine micaceous sand and silt, brown	0 - 5
Very coarse sand and gravel, to ½ in	5 - 32
Fine to medium sand, gray	32 - 42
Clay, gray	42 - 44
Fine to medium sand, scattered gravel, gray	44 - 52
DEERFIELD A11.	
Sandy silt, brown	0 - 10
Coarse gravel	10 - 15
Coarse sand	15 - 20
Sandy silt	20 - 52

	Depth
DEERFIELD A12.	
Silty clay, gray	0 - 8
Fine sandy silt	8 - 9
Silty clay, gray	9 - 18
Sandy silt	18 - 22
Silt and fine red sand	22 - 27
Medium to coarse sand, red	27 - 87
DEERFIELD B1 (North bank).	
Sand and gravel	0 - 0.6
Bedrock	at .6
DEERFIELD B1 (South bank).	
Silty sand and gravel	0 - 8
Silt, compact	8 - 18.3
Fine sand, compact	18.3 - 28.5
Very fine sand, trace of clay, compact	28.5 - 38.3
Fine sand, compact	38.3 - 47.2
Fine sand, gravel, rocks and some clay	47.2 - 55.5
Rock obstruction	at 55.5
DEERFIELD B2.	
Fine sand, loose, gray	0 - 21
Coarse sand and gravel, loose	21 - 22
Coarse sand and gravel, hard	22 - 28
DEERFIELD B43.	
Medium silt and fine sand, loose	0 - 1.5
Silt, trace of fine sand and clay, hard	1.5 - 13.0
Silt, some fine sand, hard, brown	13.0 - 23.0
Fine sand and trace of silt, compact	23.0 - 52.0
Silt and trace of clay and fine sand	52.0 -101.5
DEERFIELD B44.	
Fine sand, trace of silt and mica, loose, brown	0 - 5.5
Fine sand, loose, gray-brown	5.5 - 9.0
Coarse to fine sand and gravel, some cobble, compact, brown	9.0 - 15.5
Fine sand, trace of mica, compact	15.5 - 48.5
Coarse to fine sand, trace of fine gravel, compact, gray to brown	48.5 - 53.5
Medium to fine sand, compact	53.5 - 55.0
Fine sand, trace of silt and mica, compact, gray to brown	55.0 - 79.5
Coarse to fine sand, trace of fine gravel, brown, compact	79.5 - 91.0
DEERFIELD B45.	
Topsoil, some silt and fine sand	0 - 2
Coarse to fine sand and gravel, trace of silt, compact, brown	2 - 8.5
Fine sand, trace of silt, compact, gray	8.5 - 16.7
Coarse gravel, very compact	16.7 - 19.0
Fine sand, compact, gray-brown	19.0 - 90.0
Medium to fine sand, trace of silt, compact, brownish-gray	90.0 - 99.0
Medium to fine sand, some silt, compact, brown	99.0 -103
Silt, trace of fine sand, hard gray-brown	103 -111.5
DEERFIELD R1.	
Topsoil and sandy silt, brown	0 - 2
Coarse to fine sand and some gravel, compact	2 - 10
Fine sand, trace of silt, compact, gray	10 - 17.5
Medium silt and trace of fine sand	17.5 - 65.0
Coarse to fine sand and gravel, trace of silt, dense, cemented, dark red	65.0 - 66.5
DEERFIELD R2.	
Topsoil and silt	0 - 2
Fine sand, trace of silt, loose, gray	2 - 13
Silt and fine sand, gray	13 - 61.5
DEERFIELD R3.	
Topsoil and fine sand and silt	0 - 2.5
Silt, trace of fine sand	2.5 - 6.3
Coarse to fine gravel and medium to fine sand	6.3 - 10.0
Fine to medium sand	10.0 - 18.5
Coarse to fine sand, some medium to fine gravel	18.5 - 29.0
Fine sand, compact, brown	29.0 - 71.5

Table 11.--Logs of selected wells and borings (Continued)

	Depth
DEERFIELD R4.	
Fine to medium sand, loose, gray.	0 - 12
Coarse to fine sand, some coarse to fine gravel, brown	12 - 35
Silty clay	35 - 51.5
DEERFIELD R5.	
Topsoil and silt	0 - 1
Fine sand and silt, gray	1 - 10.8
Silt, gray	10.8 - 20.5
Siltstone, dark gray	20.5 - 21.5
Refusal	at 21.5
DEERFIELD R6.	
Topsoil	0 - 1
Fine sand, trace of gravel	1 - 5
Coarse to fine sand and gravel	5 - 11
Fine sand, some medium sand, silt and clay	11 - 70
Silt, some clay, gray	70 - 75.5
Clay, some silt and red sand, varved	75.5 - 80
Coarse to fine sand, medium to fine gravel, silt, cemented, some cobble (till)	80 - 95
Fine sand, red, dense, dry	95 -105
Till, clayey silt, fine sand, dense, cemented	105 -110
DEERFIELD R7.	
Topsoil	0 - 1
Coarse to fine sand, some fine to medium gravel, compact	1 - 25
Fine sand, some silt, compact	25 - 36
Coarse to fine sand, medium compact	36 - 40
Coarse to fine sand, trace of gravel	40 - 45
Fine sand, trace of silt	45 - 52.5
DEERFIELD R8.	
Topsoil	0 - 1
Fine to medium sand, some medium gravel	1 - 24
Fine to medium sand, some coarse sand, compact	24 - 27
Fine sand, trace of silt, compact medium brown	27 - 34
Silt, some clay, trace of fine sand	34 - 36.5
DEERFIELD R9.	
Coarse sand, some medium to fine gravel	0 - 2
Silt and some medium to fine sand	2 - 5
Arkose conglomerate, red	at 5
DEERFIELD R10.	
Fine to coarse sand, loose	0 - 6.5
Fine sand, loose	6.5 - 16.5
Fine sand, silt, some clay, hardpan	16.5 - 40.0
DEERFIELD R11.	
Fine sand, some medium sand, trace of silt at depth, loose	0 - 35
Fine sand, some silt	35 - 45
Fine sand, some silt, trace of clay	45 - 50
Silt and clay, trace of fine sand, gray	50 - 80
Silt, sand and gravel, red, cemented (till)	80 - 94
Decomposed sandstone, red	94 -101
DEERFIELD R12.	
Topsoil and silt	0 - 2
Medium to fine sand, trace of silt, brown	2 - 7
Muck and decayed wood	7 - 12
Coarse to fine sand, some fine gravel	12 - 16
Silt and clay, varved, gray	16 - 19
Decayed sandstone	19 - 23
Refusal	at 23
DEERFIELD R13.	
Silt, trace of fine sand	0 - 2
Coarse to fine sand, loose	2 - 8
Clay, some silt, soft, gray	8 - 14
Coarse to fine sand and gravel, trace of silt, dense	14 - 23
Coarse to fine sand, some fine gravel, compact	23 - 28
Silt, some clay, trace of fine sand, hard	28 - 56.5
DEERFIELD R14.	
Silt, organic matter	0 - 1.5
Medium to fine sand and gravel	1.5 - 3.5
Fine sand, trace of silt, trace of fine gravel	3.5 - 7
Medium to fine sand, some medium to fine gravel, trace of silt	7 - 24
Coarse to fine sand, trace of silt	24 - 30
Coarse to fine sand, some coarse to fine gravel	30 - 34
Fine sand and silt, trace of clay	34 - 45
Fine sand, trace of silt	45 - 49
Fine sand, some silt, trace of clay	49 - 52.5
FLORIDA 1.	
Hardpan and boulders	0 - 30
Shale, black	30 - 50
FLORIDA 2.	
Hardpan and boulders	0 - 24.5
Shale, black	24.5 - 55
FLORIDA 3.	
Hardpan and boulders	0 - 13.5
Shale, black	13.5 -100
FLORIDA 5.	
Hardpan and boulders	0 - 76
Shale, black	76 -106
FLORIDA 7.	
Hardpan	0 - 15
Shale	15 -140
Granite	140 -186
FLORIDA 8.	
Hardpan and boulders with gravel	0 - 20
Schist, gray	20 - 68
FLORIDA A1.	
Topsoil and silt	0 - 3
Coarse gravel, sand and silt mixed	3 - 11
Silt, clayey	11 - 18
Coarse gravel	18 - 19
Cobble, closely packed, refusal	at 19
FLORIDA A2.	
Topsoil, silty	0 - 2
Silt, sandy	2 - 9
Cobble, large, closely packed	9 - 10
Refusal	at 10
FLORIDA A3.	
Topsoil, silty	0 - 1
Silt, sandy	1 - 10
Coarse cobble, closely packed	10 - 12
Refusal	at 12
FLORIDA A4.	
Coarse sand	0 - 5
Medium gravel	5 - 8
Cobble, large, tightly packed	8 - 10
GREENFIELD 4.	
Sand	0 - 6
Clay, blue	6 - 46
Sandstone, some coarse, with pebbles	46 -281
GREENFIELD 13.	
Fine sand and clay	0 - 7
Hardpan	7 - 8
Clay and fine sand	8 - 48
Gravel and coarse sand	48 - 53
GREENFIELD 17.	
Topsoil, sand and gravel	0 - 11
Sandstone, red	11 -125
GREENFIELD 19.	
Topsoil	0 - 2.5
Gravel	2.5 - 5.5
Clay, blue	5.5 - 65
Hardpan	65 - 69
Gravel, black	69 - 72
Gravel, yellow	72 - 76
Sand and gravel	76 -123
GREENFIELD 20.	
Topsoil	0 - 2
Sand and gravel	2 - 16
Clay	16 - 23
Gravel, mixed with sand and boulders	23 - 40
Coarse sand	40 - 44
Gravel and boulders	44 - 84
GREENFIELD 34.	
Fine sand, brown	0 - 17
Fine sand, silty, gray	17 - 28
Clay, gray to blue	28 -187
Sand and clay	187 -188
GREENFIELD 35.	
Fine sand, medium brown	0 - 7
Fine sand, brown	7 - 17
Fine sand, silty, gray	17 - 21
Clay, bluish gray	21 -173
Fine sand and clay	173 -176
GREENFIELD 38.	
Coarse gravel	0 - 7
Very fine sand, silty, gray	7 - 37
Very fine sand, gray	37 - 58
Clay, gray	58 - 92
Fine sand, brown	92 - 95
GREENFIELD 40.	
Fine sand, brown	0 - 20
Very fine sand, brown	20 - 35
Clay, blue	35 - 62
GREENFIELD 41.	
Coarse sand and gravel, brown	0 - 8
Fine sand, medium brown	8 - 18
Fine sand, brown	18 - 58
Sand, silty, brown	58 - 88
Silt and clay	88 -120
Very fine sand, gray	120 -147
GREENFIELD 42.	
Coarse sand and gravel, brown	0 - 10
Fine sand, brown	10 - 20
Silt, brown	20 - 32
Gravel, sandy, red	32 - 35
GREENFIELD 43.	
Very fine sand	0 - 30
Silt, brown	30 - 62
Clay, gray	62 -207
Refusal	at 207
GREENFIELD 44.	
Coarse gravel, brown	0 - 8
Clay, gray	8 - 46
Fine to medium sand, gray	46 - 53
Refusal	at 53
GREENFIELD 45.	
Coarse gravel	0 - 10
Clay, gray	10 - 21
Hardpan, red	21 - 38
Refusal	at 38
GREENFIELD 46.	
Coarse gravel, brown	0 - 10
Fine sand, brown	10 - 33
Fine sand and clay, brown	33 - 47
Fine sand, gray	47 - 54
Fine sand and clay, gray	54 - 68
Very fine silt, gray	68 - 84
Silt and clay, gray	84 -110
Sand and gravel	110 -111
Refusal	at 111
GREENFIELD 47.	
Coarse gravel, brown	0 - 10
Clay, gray	10 - 32
Fine sand, brown	32 - 39
Fine sand, brown, and clay	39 - 52
Clay, gray	52 - 97
Medium to coarse gravel, gray	97 -103
Sand and gravel, gray	103 -109
Refusal	at 109
GREENFIELD 48.	
Coarse gravel, brown	0 - 14
Fine sand, brown	14 - 18
Fine to medium sand, brown	18 - 25
Fine sand and clay, gray	25 - 32
Fine sand, brown	32 - 40
Sand and clay, gray	40 - 47
Clay, gray	47 - 80
Fine sand, gray	80 - 92
Coarse sand, slate colored	92 - 98

Table 11.--Logs of selected wells and borings (Continued)

	Depth
GREENFIELD 49.	
Coarse gravel, brown	0 - 14
Clay and gravel	14 - 23
Fine sand, brown	23 - 30
Medium coarse sand, brown	30 - 45
Medium coarse gravel, brown	45 - 48
GREENFIELD 50.	
Medium coarse sand and gravel, red-brown	0 - 9
Clay, gray	9 - 56
Fine to medium sand, red-brown	56 - 64
Fine to medium sand, some gravel, red-brown	64 - 69
Fine to medium sand, red-brown	69 - 72
GREENFIELD 51.	
Medium coarse gravel, gray	0 - 5
Clay, gray	5 - 93
Very fine sand, gray	93 -114
Medium coarse gravel, gray	114 -115
GREENFIELD 52.	
Coarse sand and gravel, brown	0 - 5
Clay, gray	5 - 64
Fine silt and clay, gray	64 - 82
Hardpan	82 - 83
GREENFIELD 53.	
Coarse gravel, gray	0 - 7
Clay, gray	7 - 46
Fine medium sand, gray	46 - 48
Medium sand and gravel, gray	48 - 51
Medium coarse sand, gray, and gravel	51 - 64
Fine sand	64 - 68
GREENFIELD 57.	
Coarse gravel	0 - 10
Medium sand and gravel	10 - 27
Fine sand and clay	27 - 30
Clay, blue	30 - 52
Fine sand and clay	52 -115
Medium gravel	115 -122
Fine sand	122 -130
Sand and gravel, red	130 -133
Refusal	at 133
GREENFIELD 61.	
Coarse gravel	0 - 10
Fine sand	10 - 25
Fine sand and clay	25 - 53
Clay, blue	53 - 89
Fine clay, sandy	89 -112
Fine sand	112 -115
Medium sand	115 -120
Refusal	at 120
GREENFIELD 62.	
Medium gravel	0 - 10
Medium sand	10 - 20
Sand and clay	20 - 30
Fine sand and clay	30 - 35
Clay, blue	35 - 58
Fine sand and clay	58 -112
Sand, red	112 -117
Refusal	at 117
GREENFIELD 65.	
Coarse sand and gravel	0 - 15
Medium sand and clay	15 - 19
Fine sand and clay	19 - 25
Clay, gray	25 - 75
Coarse sand and gravel, some clay	75 - 81
Fine and medium gravel	81 - 86
Coarse and medium gravel	86 - 97
Coarse sand and gravel	97 -107
Fine sand and clay	107 -110
Coarse and medium gravel	110 -116
Medium to fine sand and gravel	116 -122
Gravel and medium sand	122 -130
Medium sand	130 -133
Refusal, arkose, red	at 133
GREENFIELD A1.	
Topsoil and gravel fill	0 - 7
Silty clay, gray, saturated	7 - 30
Fine sandy silt	30 - 40
Clay	40 - 42
Silt and fine sand	42 - 58
Clay, red	58 - 60
Arkose, red	at 60
GREENFIELD A2.	
Gravel and coarse sand, small ½ in. rounded flat pebbles	0 - 15
Fine to medium sand, gray	15 - 22
Fine clay, sandy, silty	22 - 30
GREENFIELD A2 (Continued).	
Clay, gray	30 - 72
Fine to medium sand, gray	72 - 89
Clay, gray	89 - 91
Arkose, red	91 - 92
GREENFIELD A3.	
Topsoil and gravel fill	0 - 5
Clay, silty, brown	5 - 20
Clay, gray	20 - 63
Medium sand, gray	63 - 65
Arkose, red	at 65
GREENFIELD B1.	
Sand and gravel, loamy	0 - 3
Sand, hard, some gravel	3 - 6
Clay, sandy, soft, yellow	6 - 16
Clay, soft, blue	16 - 46
Sand and gravel	46 - 65
Sand, cemented, red	65 - 67
Refusal	at 67
NOTE: Bedrock surface rises sharply to west almost at surface at west abutment.	
GREENFIELD B3.	
(Located near center of river.)	
Coarse sand and gravel, loose, dirty	0 - 5
Fine sand and clay, soft, gray	5 - 20
Coarse sand and gravel, hard, red	20 - 24
Refusal	at 24
GREENFIELD B7.	
Fine sand, trace of silt	0 - 13
Medium to fine sand and gravel	13 - 17
Clay and silt	17 - 49
Medium to fine sand and silt	49 - 50
Refusal, bedrock	at 50
GREENFIELD B22.	
Medium and fine sand, fill	0 - 10
Fine sand and gravel, trace of silt	10 - 30
Fine sand and gravel	30 - 31
GREENFIELD B35.	
Broken rock and rock dust, compact	0 - 4
Sand, gravel and clay, compact	4 - 13.5
Rock obstruction	at 13.5
GREENFIELD B42.	
Coarse to medium sand, trace of gravel and silt	0 - 15
Clay, gray, trace of silt	15 - 43
Coarse sand, brown, some gravel, trace of silt	43 - 70
Hardpan	70 - 73
Refusal	at 73
GREENFIELD B43.	
Topsoil	0 - 1
Fine sand, trace of silt, brown	1 - 9
Arkose, red	at 9
GREENFIELD B44.	
Topsoil	0 - 1
Fine to medium sand, gray-brown	1 - 24
Silt, clayey, gray	24 - 78
Sandstone, red	78 - 79
GREENFIELD B45.	
Topsoil	0 - 1
Fine sand, some silt	1 - 20
Fine silt, trace of sand and clay	20 - 24
Clay and silt, gray	24 - 54
Sand and gravel	54 - 55
Refusal	at 55
NOTE: Bedrock drops to 73 ft. deep at north end of bridge.	
GREENFIELD B46.	
Topsoil	0 - 1
Fine sand, brown, some silt	1 - 7
Clay and silt, gray	7 - 42
Sandstone	at 42
GREENFIELD B47.	
Topsoil	0 - 1
Fine sand, silty	1 - 3
Fine to coarse sand, trace of medium gravel	3 - 11
Fine sand, silty, trace of clay	11 - 19
Clay, silty, gray	19 - 38
Fine to coarse sand and gravel, red	38 - 41
Refusal	at 41
GREENFIELD B48.	
Sand, silty, brown	0 - 6
Sand, brown, some gravel	6 - 13
Clay, some silt, soft, gray	13 -148
Sand, clay and gravel	148 -154
Refusal, bedrock	at 154
GREENFIELD B49.	
Very fine sand, silty	0 - 3
Silt, light gray	3 - 10
Clay, some silt, soft, gray	10 - 40
Boulder	40 - 43
Sand and gravel, trace of clay, compact	43 - 49
Sandstone	at 49
GREENFIELD B54.	
Topsoil	0 - 1
Fine sand, trace of gravel	1 - 10
Clay, soft, gray	10 - 21
Sand, some gravel, trace of clay, red-gray	21 - 24
Refusal	at 24
GREENFIELD B55.	
Topsoil	0 - 1
Fine sand, trace of gravel	1 - 9.5
Clay, gray, trace of gravel	9.5 - 13
Clay, soft, dark gray	13 - 40
Sand, gravel and clay	40 - 43
Sand and clay	43 - 44
Sandstone, red	44 - 52
GREENFIELD B56.	
Peat, sand, gravel and silt	0 - 8
Clay, some silt, soft	8 - 50
Silt, trace of clay, some fine sand, dark gray	50 - 75
Fine sand, some silt	75 - 85
Sand, some gravel and clay, red-gray	85 - 90
GREENFIELD B57.	
Topsoil	0 - 1.5
Medium to coarse sand, trace of gravel	1.5 - 13.0
Medium sand, medium compact, gray	13.0 - 20.5
Fine sand, compact	20.5 - 22.0
Fine to medium sand, compact, brown	22.0 - 29.0
Fine sand, some silt, medium compact	29.0 - 80.0
Silt and fine sand, little clay	80.0 - 81.0
Fine sand, silt and clay, compact, moist	81.0 - 95.0
Silt, trace of sand and clay, varved	95.0 -101.5
GREENFIELD B58.	
Silt and organic matter, loose, dry	0 - 4
Fine sand and silt, brown, wet	4 - 55
Fine sand and silt, gray	55 - 71
Silt, gray, some clay and fine sand	71 -102.5
GREENFIELD B60.	
Topsoil	0 - 1
Silt and fine sand, brown	1 - 4
Clay and silt, some fine sand, varved	4 -151.5
GREENFIELD B62.	
Topsoil	0 - 1
Fine sand, trace of silt, brown	1 - 59
Silt, gray and fine sand	59 - 65
Silt, gray, and clay	65 -101
GREENFIELD R1.	
Fine sand, brown and gray, trace of silt and clay	0 - 3
Fine sand, brown, trace of silt and clay	3 - 5
Fine sand, gray, some clay and silt	5 -183
GREENFIELD R2.	
Topsoil	0 - 1
Coarse to fine sand and little gravel, brown	1 - 21.5
GREENFIELD R3.	
Topsoil	0 - 2.3
Fine sand, trace of silt	2.3 - 9
Fine sand, trace of gravel	9 - 16
Silt, gray, some fine sand	16 - 21.5
Medium silt, gray	21.5 - 24.5
Clay, very stiff, moist	24.5 - 55
Clay, hard, gray, moist	55 -104.5

Table 11.--Logs of selected wells and borings (Continued)

	Depth
GREENFIELD R4.	
Fine sand, brown	0 - 5
Sand, brown, some gravel	5 - 10
Clay, some silt and fine sand	10 -136
Refusal	at 136
GREENFIELD R5.	
Topsoil	0 - 2.5
Silt and fine sand, soft, moist	2.5 - 8
Fine sand, trace of silt, loose, gray	8 - 10
Fine to coarse sand, fine gravel, traces of silt	10 - 16.5
Clay, traces of silt, soft, gray	16.5 -103
Refusal	at 103
GREENFIELD R6.	
Topsoil	0 - 3.5
Medium silt, brown	3.5 - 9
Sand, brown, trace of silt, loose, damp	9 - 17
Medium sand, brown, fine gravel	17 - 19
Clay, trace of silt, soft, gray, moist	19 - 77.5
Refusal	at 77.5
GREENFIELD R7.	
Topsoil	0 - .5
Sandstone, weathered	.5 - 5
Refusal	at 5
GREENFIELD R8.	
Topsoil	0 - 1
Fine sand, some silt, loose, brown	1 - 6
Fine to coarse sand, some silt	6 - 11
Clay, traces of silt, soft, gray	11 - 31.8
Till, compact, red	31.8- 98
Sandstone, red	98 - 99
GREENFIELD R9.	
Fine sand	0 - 4
Sand, some gravel	4 - 10
Clay, some silt	10 - 24
Sand, some gravel and clay	24 - 27
Refusal	at 27
GREENFIELD R10.	
Sand, silty	0 - 3.5
Refusal	at 3.5
GREENFIELD R11.	
Fine sand and silt, brown	0 - 5
Coarse to fine sand, trace of gravel, brown	5 - 10.5
Fine sand and silt, gray-brown	10.5 - 25
Medium to fine sand	25 - 30.5
Silt, trace of fine sand, gray	30.5 - 48.5
Medium fine sand, gray	48.5 - 58
Clay, some silt, gray	58 - 62
GREENFIELD R12.	
Fine and medium sand, some gravel, silt, and clay	0 - 1.5
Sandstone, decomposed	1.5 - 4
GREENFIELD R13.	
Topsoil	0 - 1
Fine sand, some silt, loose, brown	1 - 3.5
Silt, stiff, brown	3.5 - 10
Medium clay, traces of silt, gray	10 - 40
GREENFIELD R14.	
Silt and sand, loose	0 - 1.5
Sandstone, weathered	1.5 - 9.5
GREENFIELD R15.	
Medium gravel, some coarse sand, trace of silt, compact, brown	0 - 3.8
Silt, some clay, trace of sand, hard, brown	3.8 - 6
Clay, very stiff	6 - 40
GREENFIELD R16.	
Sand and clay, trace of gravel, brown	0 - 3
Clay, brown and gray, trace of sand	3 - 5
Clay, soft, gray	5 - 25
Sand, some silt, trace of clay	25 - 35
Sand and gravel, clay	35 - 39.6
Refusal	at 39.6

	Depth
GREENFIELD R18.	
Organic matter, some fine sand, gray	0 - 1.5
Sand, loose, gray	1.5 - 6.8
Silt, clayey, very loose, gray	6.8 - 13
Refusal	at 13
GREENFIELD R19.	
Topsoil	0 - 1
Fine to medium sand and silt, medium compact	1 - 5.5
Sandstone	at 5.5
GREENFIELD R20.	
Organic matter, black	0 - 1
Silt, trace of clay, loose, gray	1 - 4.5
Fine to medium sand, some silt, medium compact	4.5 - 7.8
Medium to fine sand, medium compact	7.8 - 10.2
Hardpan	10.2 - 11.8
Refusal, ledge	at 11.8
GREENFIELD R21.	
Silty sand, gray	0 - 11
Clay, silty and sand, varved	11 - 45
Medium to coarse sand, red	45 - 47.5
Refusal	at 47.5
GREENFIELD R22.	
Fine sand	0 - 3.5
Fine to coarse sand, red	3.5 - 4.5
Sandstone, decomposed, red	4.5 - 5.5
Refusal	at 5.5
GREENFIELD R23.	
Coarse to medium sand and gravel, red	0 - 2
Silt and clay, layer of medium to fine sand	2 - 7
Coarse to medium sand and fine gravel	7 - 8.5
Silt, clay and sand, varved	8.5 - 25
Sand, silty	25 - 38
Fine sand, gray	38 - 44.5
Fine to coarse sand, red, and gravel	44.5 - 48
Sandstone, decomposed, red	at 48
GREENFIELD R24.	
Fine to coarse gravel and sand	0 - 8
Fine sand, trace of silt	8 - 20
Fine sand and silt, very compact	20 - 28
Silt, very compact, dry, red-brown	28 - 40
Silt, compact, brown	40 - 50
Refusal	at 50
GREENFIELD R25.	
Fine to coarse gravel, some sand, compact	0 - 12
Fine sand, trace of silt, compact	12 - 28
Fine to coarse sand, some fine gravel, trace of silt	28 - 32
Fine to medium gravel, some coarse sand and silt, very compact	32 - 39
Sandstone, red	39 - 40
Refusal	at 40
GREENFIELD R26.	
Sand, gray, some silt	0 - 2
Sand, gray, silt, trace of clay	2 - 13
Clay, gray, trace of silt	13 - 25
Fine sand, brown, silt, trace of clay	25 - 27
Fine sand, brown, trace of silt	27 - 32.5
Fine sand, brown, silt	32.5 - 36.5
Coarse sand, trace of gravel and silt	36.5 - 41
Sandstone, red	41 - 50
Refusal	at 50
GREENFIELD R27.	
Topsoil	0 - .5
Fine sand, brown, little silt	.5 - 5
Silt and clay	5 - 19.5
Refusal	at 19.5

	Depth
GREENFIELD R28.	
Topsoil	0 - 1
Fine to medium sand, brown	1 - 4
Fine sand, trace of silt, gray	4 - 14.5
Clay and silt, gray	14.5 - 53.5
Refusal	at 53.5
GREENFIELD R29.	
Topsoil	0 - 1
Fine to medium sand, brown, trace of silt	1 - 2
Medium to coarse sand, gray, some fine to medium gravel	2 - 5
Silt and clay, varved	5 - 6.5
Fine to medium sand, red, some decomposed rock, trace of silt	6.5 - 7
Refusal	at 7
GREENFIELD R30.	
Topsoil	0 - 1.5
Coarse to fine sand, gray, little fine to coarse gravel	1.5 - 6
Fine sand, little silt, gray	6 - 10
Clay, silty, gray, layers of fine sand	10 - 50.5
Fine to medium sand, red, some silt, trace of fine to coarse gravel	50.5 - 57
Sandstone	57 - 58
GREENFIELD R31.	
Topsoil, peat	0 - 1.5
Fine gravel and coarse sand, brown	1.5 - 4.5
Silt, some fine sand, stiff, gray, moist	4.5 - 11.5
Clay, trace of silt, stiff, gray	11.5 - 18
Clay, soft, gray, moist	18 - 25
Clay, very stiff, gray, moist	25 - 45
Refusal	at 45
GREENFIELD R32.	
Topsoil, peat	0 - .5
Fine sand, compact, gray, moist	.5 - 3.5
Fine gravel, compact, brown, some sand	3.5 - 5.5
Fine sand, some silt, compact, brown	5.5 - 49.5
Silt, trace of sand, hard, gray	49.5 - 57.5
Refusal	at 57.5
GREENFIELD R33.	
Topsoil	0 - .5
Fine gravel, some fine sand, brown	.5 - 7
Fine sand, compact, gray	7 - 11.5
Coarse sand, very compact, gray	11.5 - 15.5
Fine sand, very compact, gray, trace of silt	15.5 - 23
Fine sand and silt, very compact, gray	23 - 47.5
Refusal	at 47.5
GREENFIELD R34.	
Topsoil and peat	0 - 4.5
Fine gravel, some coarse sand, compact, brown	4.5 - 6.5
Fine sand and silt, compact, gray	6.5 - 12
Clay, some silt, very stiff, gray	12 - 13.5
Clay, some silt, hard, gray	13.5 - 36.5
Refusal	at 36.5
GREENFIELD R35.	
Topsoil and peat	0 - 5
Coarse gravel, some coarse sand, compact, brown	5 - 8.5
Clay, trace of silt, hard, gray	8.5 - 33.5
Refusal	at 33.5
GREENFIELD R36.	
Topsoil and peat	0 - 1.5
Coarse gravel, compact, brown	1.5 - 2.5
Clay, trace of silt, hard	2.5 - 7.5
Fine sand, trace of silt, compact, gray	7.5 - 11.5
Clay, gray, hard	11.5 - 13
Fine sand, trace of silt, compact, gray	13 - 20
Clay, very stiff, gray	20 - 40
Clay, hard, gray	40 - 44.5
Refusal	at 44.5

Table 12.--Water levels in observation wells

(Water levels in feet below land-surface datum. For description of wells, see table 10.)

ASHFIELD 33

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	7.92	Nov. 8	8.09	June 4	8.06
13	7.99	Dec. 12	7.88	18	8.02
28	8.04	1969		July 1	8.09
June 20	7.67	Jan. 6	8.02	14	8.17
July 10	8.03	29	7.88	Aug. 1	7.88
24	8.12	Mar. 7	8.14	13	8.02
Aug. 5	8.18	24	7.30	Sept. 12	8.01
20	8.40	Apr. 11	6.49	26	8.18
Sept. 5	8.74	25	6.51	Oct. 10	8.22
23	8.37	May 9	7.97	24	8.21
Oct. 8	8.27	22	8.01	Nov. 7	7.58
10	8.29				

ASHFIELD 34

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	0.35	Nov. 8	3.62	June 18	0.65
13	.53	Dec. 12	.17	July 1	.70
28	.60	1969		14	.86
June 20	.10	Jan. 6	.59	Aug. 1	.62
July 10	.49	29	.62	13	.51
24	.74	Mar. 7	.74	Sept. 11	.65
Aug. 5	1.32	24	.66	25	.86
20	2.69	Apr. 11	+.74	Oct. 10	1.16
Sept. 5	3.55	25	+.62	24	1.50
23	3.89	May 9	.33	Nov. 7	.42
Oct. 8	4.37	22	.54	1970	
21	4.32	June 4	.68	Apr. 28	+.30

ASHFIELD 36

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	2.22	Oct. 21	2.75	June 4	1.99
13	2.32	Nov. 8	2.69	18	1.99
28	2.33	Dec. 12	2.14	July 1	2.15
June 20	1.43	1969		14	2.40
July 10	1.70	Jan. 29	2.05	Aug. 1	2.36
24	2.03	Mar. 7	2.48	13	2.32
Aug. 5	2.23	24	1.89	Sept. 12	2.40
20	2.55	Apr. 11	.83	26	2.61
Sept. 5	2.64	25	.60	Oct. 10	2.64
23	2.62	May 9	1.50	24	2.73
Oct. 8	2.64	22	1.67	Nov. 7	2.39

COLRAIN 1

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 2	6.73	Oct. 8	8.63	June 3	7.40
14	7.01	22	7.98	17	6.59
29	7.30	Nov. 7	8.02	July 1	7.36
June 5	6.70	Dec. 13	6.59	14	7.59
20	5.85	1969		31	6.48
July 10	7.14	Jan. 7	7.27	Aug. 11	7.04
25	7.83	28	7.39	Sept. 11	7.63
Aug. 5	8.05	Mar. 24	7.05	25	8.12
21	8.78	Apr. 10	4.93	Oct. 8	8.06
Sept. 5	9.38	24	4.59	23	7.91
26	8.73	May 8	6.82	Nov. 6	6.84
Oct. 3	8.60	22	6.95		

(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1968		1968		1968	
Oct. 8	7.86	Oct. 16	8.16	Oct. 24	8.07
9	7.88	17	8.16	25	8.00
10	7.95	18	8.18	26	7.85
11	8.03	19	8.16	27	7.87
12	8.08	20	7.95	28	7.91
13	8.11	21	7.93	29	7.95
14	8.14	22	8.00	30	7.98
15	8.15	23	8.04	31	7.99

COLRAIN 1--Continued

(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
Nov. 1	8.02	Dec. 20	6.60	Feb. 6	7.49
2	7.98	21	6.52	7	7.50
3	7.90	1969		8	7.53
4	7.91	Jan. 7	7.27	9	7.55
5	7.94	8	7.30	10	7.55
6	7.98	9	7.33	11	7.55
7	7.95	10	7.36	12	7.55
8	7.68	11	7.39	13	7.56
9	7.53	12	7.41	14	7.58
10	7.52	13	7.43	15	7.60
11	7.52	14	7.47	16	7.57
12	7.52	15	7.49	17	7.56
13	7.52	16	7.51	18	7.61
14	7.41	17	7.54	19	7.64
15	7.38	18	7.55	20	7.65
16	7.36	19	7.54	21	7.66
17	7.29	20	7.40	22	7.67
18	7.20	21	7.52	23	7.68
19	6.76	22	7.55	24	7.67
20	6.75	23	7.57	25	7.67
21	6.87	27	7.23	26	7.67
22	6.94	28	7.35	27	7.68
23	6.98	29	7.40	28	7.70
24	6.98	30	7.42	Mar. 1	7.72
Dec. 14	6.70	31	7.39	2	7.73
15	7.00	Feb. 1	7.38	3	7.73
16	6.90	2	7.07	4	7.73
17	6.81	3	7.40	5	7.75
18	6.74	4	7.43	6	7.78
19	6.65	5	7.47		

COLRAIN 8

Date	Water level	Date	Water level	Date	Water level
1964		1967		1969	
Dec. 4	23.02	Sept. 29	20.82	Mar. 28	17.93
1965		Oct. 27	20.85	Apr. 10	16.25
Feb. 3	23.48	Nov. 28	21.67	24	14.62
24	23.40	Dec. 6	21.06	28	15.81
Mar. 23	22.53	1968		May 8	16.50
Apr. 29	19.79	Jan. 26	20.36	22	17.22
May 24	19.17	Feb. 21	20.09	27	17.66
June 21	20.29	Mar. 27	18.82	June 3	18.09
July 29	21.40	Apr. 25	17.46	17	18.15
Aug. 28	21.92	May 2	18.23	26	18.58
Sept. 29	22.48	14	18.40	July 1	18.84
Oct. 27	22.65	24	18.52	14	19.18
Nov. 23	22.84	29	18.76	30	18.97
Dec. 22	23.14	June 5	18.30	31	19.12
1966		20	16.94	Aug. 11	19.61
Jan. 25	23.00	26	16.83	27	20.32
Feb. 23	22.40	July 10	18.07	Sept. 11	20.33
Mar. 23	20.40	26	18.12	23	20.80
Apr. 26	18.05	Aug. 5	18.69	Oct. 17	21.20
May 25	18.77	21	19.48	23	21.23
June 23	19.75	27	19.79	29	21.47
July 26	20.86	Sept. 5	20.25	Nov. 6	20.85
Aug. 24	21.49	24	21.08	20	19.51
Sept. 23	21.85	26	21.00	26	19.76
Oct. 26	22.36	Oct. 8	20.86	Dec. 4	19.22
Nov. 26	22.40	22	21.37	1970	
Dec. 26	22.14	29	21.50	Mar. 10	18.11
1967		Nov. 7	21.79	27	17.70
Jan. 27	21.75	26	21.40	Apr. 9	16.04
Feb. 27	21.63	Dec. 12	20.47	27	16.03
Mar. 28	21.07	24	19.44	28	16.18
Apr. 27	16.33	1969		May 27	17.39
May 25	16.80	Jan. 8	19.17	June 26	18.82
June 27	17.52	Feb. 25	19.50	July 29	20.25
July 28	18.37	Mar. 6	19.77	Aug. 27	21.13
Aug. 29	19.53	24	19.46	Sept. 25	21.75

Table 12.--Water levels in observation wells (Continued)

COLRAIN 33--Continued

(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1969		1969		1969	
Apr. 29	9.56	Aug. 13	13.60	Nov. 6	17.44
June 3	16.01	14	13.69	7	17.10
4	16.08	15	13.99	8	15.66
5	16.18	16	14.16	9	14.88
6	16.17	17	14.32	10	14.32
7	15.12	18	14.49	11	13.78
8	14.66	19	14.66	12	13.42
9	14.36	20	14.86	13	13.25
10	14.22	21	15.04	14	13.02
11	14.20	22	15.28	15	12.69
12	14.26	23	15.51	16	12.60
13	14.35	24	15.75	17	12.58
14	14.44	25	15.96	18	12.62
15	14.41	26	16.19	19	12.74
16	13.79	27	16.43	20	11.98
17	13.70	28	16.62	21	11.48
18	13.70	29	16.78	22	11.23
19	13.78	30	16.95	1970	
20	13.92	31	17.10	Jan. 20	17.50
21	13.98	Sept. 1	17.25	Feb. 19	13.04
22	13.92	2	17.39	20	13.30
23	13.93	3	17.51	21	13.51
24	13.74	4	17.63	22	13.67
25	13.63	5	17.73	23	13.88
26	13.67	6	17.83	24	14.06
27	13.71	7	17.91	25	14.20
28	13.71	8	17.90	26	14.41
29	13.77	9	17.39	27	14.58
30	13.87	10	17.28	28	14.76
July 1	14.00	11	17.36	Mar. 1	14.92
2	14.16	25	18.55	2	15.14
3	14.31	26	18.59	3	15.35
4	14.47	27	18.64	4	15.52
5	14.62	28	18.68	5	15.68
6	14.81	29	18.74	6	15.84
7	15.00	30	18.78	7	15.98
8	15.25	Oct. 1	18.83	8	16.10
9	15.49	2	18.87	9	16.24
10	15.73	3	18.87	10	16.38
11	15.97	4	18.77	11	16.49
12	16.20	5	18.75	12	16.62
13	16.41	6	18.75	13	16.72
14	16.56	7	18.75	14	16.83
15	16.69	8	18.80	15	16.92
16	16.82	9	18.81	16	17.00
17	16.95	10	18.85	17	17.08
18	17.08	11	18.90	18	17.13
19	17.21	12	18.93	19	17.18
20	17.33	13	18.97	20	17.23
21	17.44	14	19.00	21	17.23
22	17.54	15	19.03	22	17.11
23	17.63	16	19.06	23	16.88
24	17.70	17	19.09	24	16.55
25	17.77	18	19.13	25	16.34
26	17.84	19	19.15	26	15.75
27	17.91	20	19.18	27	14.67
28	17.93	21	19.22	28	13.46
29	15.76	22	19.24	29	12.29
30	14.60	23	19.25	30	11.24
31	14.32	24	19.25	31	10.67
Aug. 1	13.89	25	19.25	Apr. 1	10.75
2	13.62	26	19.24	2	10.23
3	13.56	27	19.24	3	8.31
4	13.60	28	19.25	4	8.06
5	12.92	29	19.27	5	8.30
6	12.70	30	19.28	6	8.53
7	12.78	31	19.30	7	8.66
8	12.84	Nov. 1	19.32	8	8.55
9	12.93	2	19.34	9	8.06
10	13.05	3	18.93	10	7.75
11	13.16	4	18.52	11	7.95
12	13.36	5	18.26	12	8.29

COLRAIN 33--Continued

(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1970		1970		1970	
Apr. 13	8.60	Apr. 30	11.67	May 17	15.16
14	8.88	May 1	12.05	18	14.79
15	9.11	2	12.41	19	13.73
16	9.37	3	12.69	20	13.34
17	9.65	4	12.83	21	13.19
18	9.98	5	13.03	22	13.13
19	10.38	6	13.28	23	13.16
20	10.74	7	13.50	24	13.24
21	11.00	8	13.68	25	13.34
22	11.29	9	13.86	26	13.37
23	11.58	10	14.04	27	13.52
24	11.66	11	14.19	28	13.70
25	11.05	12	14.38	29	13.87
26	10.86	13	14.53	30	14.01
27	10.80	14	14.70	31	14.14
28	10.93	15	14.89	June 1	14.31
29	11.27	16	15.05	2	14.43

COLRAIN 34

1968		1969		1969	
May 2	16.08	Jan. 29	22.43	Oct. 24	27.66
14	17.32	Mar. 6	25.21	Nov. 6	28.60
28	18.55	27	26.78	20	20.95
June 20	13.81	Apr. 10	22.43	Dec. 4	15.76
July 10	12.70	24	4.13	1970	
25	17.52	May 8	9.53	Jan. 20	20.41
Aug. 5	20.59	22	11.14	Feb. 18	17.92
20	23.86	June 3	13.76	Mar. 10	19.55
Sept. 5	26.36	17	15.56	Apr. 9	20.33
26	28.59	July 1	15.53	27	6.48
Oct. 8	29.55	14	18.63	May 12	10.80
22	30.29	31	21.84	June 2	13.38
Nov. 7	30.91	Aug. 11	18.60	17	17.24
Dec. 13	21.35	Sept. 11	22.99	July 2	20.89
1969		25	24.73	15	23.24
Jan. 7	19.24	Oct. 8	26.23	29	25.42

COLRAIN 35

1968		1968		1969	
May 2	5.45	Oct. 22	5.42	May 22	5.34
14	5.44	Nov. 7	5.39	June 3	5.33
29	5.22	Dec. 13	5.44	17	5.41
June 20	5.30	1969		July 1	5.43
July 10	5.39	Jan. 7	5.47	14	5.43
25	5.43	30	5.47	31	5.40
Aug. 5	5.53	Mar. 6	5.50	Aug. 11	5.40
20	5.42	27	5.38	Sept. 11	5.40
Sept. 5	5.45	Apr. 10	5.26	25	5.40
26	5.37	24	5.35	Oct. 8	5.40
Oct. 8	5.40	May 8	5.47		

CONWAY 177

1968		1968			
May 1	12.31	Oct. 8	12.59	Apr. 25	12.19
13	12.30	21	12.59	May 9	12.31
28	12.38	Nov. 8	12.57	23	12.32
June 20	12.26	Dec. 12	12.29	June 4	12.38
July 10	12.30	1969		18	12.39
24	12.35	Jan. 6	12.29	July 1	12.45
Aug. 5	12.40	29	12.34	14	12.54
20	12.55	Mar. 7	12.37	Aug. 1	12.40
Sept. 5	12.60	24	12.26	13	12.35
23	12.59	Apr. 11	12.30		

Table 12.--Water levels in observation wells (Continued)

COLRAIN 29

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 2	7.57	Oct. 8	7.35	June 17	6.42
14	7.28	22	8.09	July 1	7.36
29	7.56	Nov. 7	7.97	14	7.66
June 20	6.67	Dec. 13	7.07	31	6.22
July 10	7.55	1969		Aug. 11	6.88
25	7.78	Apr. 10	7.23	Sept. 25	7.73
Aug. 5	7.87	24	5.31	Oct. 17	7.53
20	7.95	May 8	7.13	23	7.37
Sept. 5	7.88	22	6.99	Nov. 6	7.25
26	7.83	June 3	7.29		

COLRAIN 30

Date	Water level	Date	Water level	Date	Water level
1968		1968			
May 2	2.94	Nov. 7	7.62	June 17	3.41
14	3.07	Dec. 12	2.78	July 1	4.52
29	3.83	1969		14	5.77
June 20	2.58	Jan. 7	3.64	31	4.17
July 10	4.01	29	3.77	Aug. 11	3.88
25	5.67	Mar. 6	5.66	Sept. 11	5.60
Aug. 5	7.11	24	2.67	25	6.86
20	8.54	Apr. 10	2.31	Oct. 8	7.28
Sept. 5	9.93	24	2.55	23	7.85
26	9.17	May 8	2.89	Nov. 6	6.84
Oct. 8	9.78	22	3.38	20	2.40
22	8.46	June 3	4.33	Dec. 4	2.89

COLRAIN 31

Date	Water level	Date	Water level	Date	Water level
1968		1969		1970	
Dec. 12	2.21	July 31	2.03	Feb. 18	2.08
1969		Aug. 11	2.25	Mar. 10	2.22
Jan. 7	2.15	Sept. 11	2.35	Apr. 8	1.76
28	2.03	25	3.12	27	1.91
Mar. 24	1.75	Oct. 8	2.71	May 12	2.40
Apr. 10	1.62	23	2.71	June 2	2.57
24	1.57	Nov. 6	1.87	16	3.05
May 8	2.27	20	1.77	July 2	3.04
22	2.14	Dec. 4	2.31	15	3.39
June 3	2.41	1970		29	4.30
July 1	2.58	Jan. 20	2.37		
14	2.89				

COLRAIN 32

Date	Water level	Date	Water level	Date	Water level
1968		1969		1969	
May 2	3.93	Jan. 29	5.48	Oct. 23	7.99
14	4.69	Mar. 6	6.88	Nov. 6	7.27
29	6.42	24	4.50	20	2.73
June 20	2.40	Apr. 10	2.42	Dec. 4	3.74
July 10	4.20	24	1.31	1970	
25	5.79	May 8	3.70	Jan. 20	5.79
Aug. 5	6.75	22	4.33	Feb. 18	3.73
20	7.60	June 3	5.26	Mar. 10	4.75
Sept. 5	8.18	17	4.80	Apr. 9	2.03
26	7.92	July 1	5.55	27	2.44
Oct. 8	8.20	14	6.44	May 12	4.28
22	8.04	31	4.20	June 2	4.58
Nov. 7	8.14	Aug. 11	4.20	16	5.74
Dec. 12	3.58	Sept. 11	5.99	July 2	6.68
1969		25	7.18	15	7.26
Jan. 7	4.93	Oct. 8	7.49	29	7.76

COLRAIN 33

Date	Water level	Date	Water level	Date	Water level
1968		1968		1968	
May 2	14.15	Aug. 5	17.85	Dec. 13	12.05
14	15.59	20	18.79	1969	
29	16.72	Sept. 5	19.34	Jan. 7	16.46
June 20	12.28	26	18.97	29	17.13
July 10	13.64	Oct. 22	19.27	Mar. 6	18.08
25	16.16	29	19.12	27	9.60

COLRAIN 33--Continued

Date	Water level	Date	Water level	Date	Water level
1969		1969		1970	
Apr. 10	7.75	July 31	14.24	Jan. 20	17.50
24	7.31	Aug. 11	13.17	Feb. 18	12.86
May 8	13.51	Sept. 11	17.37	Mar. 10	16.39
22	14.66	25	18.56	Apr. 9	8.06
June 3	16.03	Oct. 8	18.80	27	10.80
17	13.68	24	19.25	June 2	14.49
July 1	14.03	Nov. 6	17.35		
14	16.58	Dec. 4	14.18		

(Daily mean water levels from recorder graph.)

	1968		1968		1969	
Oct.	29	19.12	Dec. 29	15.03	Feb. 27	17.97
	30	19.12	30	15.21	28	17.99
	31	19.14	31	15.38	Mar. 1	18.01
Nov.	1	19.17	1969		2	18.02
	2	19.20	Jan. 1	15.50	3	18.03
	3	19.23	2	15.67	4	18.05
	4	19.23	3	15.84	5	18.07
	5	19.24	4	16.01	6	18.08
	6	19.24	5	16.18	7	18.08
	7	19.25	6	16.33	8	18.08
	8	19.00	7	16.44	9	18.99
	9	18.54	8	16.54	10	18.11
	10	18.41	9	16.65	11	18.14
	11	18.20	10	16.76	12	18.17
	12	17.87	11	16.86	13	18.21
	13	17.73	12	16.96	14	18.25
	14	17.70	13	17.04	15	18.28
	15	17.65	14	17.13	16	18.32
	16	17.57	15	17.22	17	18.34
	17	17.42	16	17.31	18	18.35
	18	17.15	17	17.38	19	18.35
	19	16.17	18	17.44	20	18.29
	20	15.40	19	17.49	21	18.16
	21	14.90	20	17.55	22	17.86
	22	14.64	21	17.60	23	17.57
	23	14.54	22	17.65	24	17.29
	24	14.44	23	17.69	25	16.35
	25	14.41	24	17.57	26	13.58
	26	14.46	25	17.34	27	10.33
	27	14.51	26	17.27	28	9.03
	28	14.53	27	17.21	29	8.91
	29	13.90	28	17.17	30	8.88
	30	13.49	29	17.13	31	8.94
Dec.	1	13.17	30	17.11	Apr. 1	9.12
	2	12.95	31	17.07	2	9.29
	3	12.87	Feb. 1	17.00	3	9.51
	4	12.45	2	16.98	4	9.35
	5	10.12	3	16.98	5	8.44
	6	9.19	4	16.98	6	7.78
	7	9.16	5	17.00	7	7.41
	8	9.44	6	17.05	8	7.37
	9	9.93	7	17.11	9	7.57
	10	10.51	8	17.18	10	7.71
	11	11.05	9	17.23	11	7.78
	12	11.55	10	17.27	12	8.10
	13	12.05	11	17.34	13	8.46
	14	12.36	12	17.39	14	8.71
	15	12.40	13	17.44	15	9.16
	16	12.72	14	17.51	16	9.51
	17	13.05	15	17.57	17	9.85
	18	13.32	16	17.63	18	10.23
	19	13.52	17	17.67	19	10.13
	20	13.69	18	17.72	20	10.06
	21	13.91	19	17.76	21	10.07
	22	14.08	20	17.81	22	9.83
	23	14.17	21	17.85	23	7.58
	24	14.29	22	17.88	24	7.28
	25	14.48	23	17.91	25	7.64
	26	14.65	24	17.92	26	8.16
	27	14.79	25	17.92	27	8.65
	28	14.91	26	17.94	28	9.08

Table 12.--Water levels in observation wells (Continued)

CONWAY 185

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	0.69	Nov. 8	0.91	June 4	2.01
13	.42	Dec. 12	1.89	18	1.18
28	1.28	1969		July 1	2.03
June 20	.68	Jan. 6	.85	14	1.49
July 10	1.87	29	.90	Aug. 1	1.22
24	2.35	Mar. 7	.86	13	1.43
Aug. 5	2.31	24	.60	Sept. 12	.64
20	4.04	Apr. 11	.69	26	1.23
Sept. 5	4.76	25	.72	Oct. 10	1.44
23	3.53	May 9	.56	24	1.56
Oct. 8	2.78	22	1.19	Nov. 7	.65
21	2.32				

CONWAY 186

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	5.06	Nov. 8	5.57	June 4	6.20
28	5.83	Dec. 12	5.15	18	5.94
June 13	5.65	1969		July 1	6.10
20	4.85	Jan. 6	5.70	14	6.52
July 10	5.81	29	5.37	Aug. 1	4.91
24	6.40	Mar. 7	5.76	13	5.30
Aug. 5	6.71	24	4.38	Sept. 12	4.95
20	6.99	Apr. 11	4.47	26	6.12
Sept. 5	7.14	25	3.86	Oct. 10	6.24
23	6.18	May 9	5.62	24	6.37
Oct. 8	6.24	23	5.79	Nov. 7	4.22
21	5.95				

CONWAY 188

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 1	4.19	Oct. 21	8.32	June 4	5.86
13	4.68	Nov. 8	8.49	18	6.19
28	5.19	Dec. 12	5.07	July 1	6.66
June 20	3.63	1969		14	6.98
July 10	4.15	Mar. 7	5.32	Aug. 1	6.79
24	5.73	24	3.68	13	6.19
Aug. 5	6.41	Apr. 11	2.79	Sept. 25	6.51
20	7.07	25	2.72	Oct. 10	6.90
Sept. 5	7.60	May 9	2.68	24	7.25
23	7.74	23	4.88	Nov. 7	6.60
Oct. 8	8.27				

DEERFIELD 44

Date	Water level	Date	Water level	Date	Water level
1964		1966		1968	
Dec. 4	4.60	Nov. 26	2.99	Nov. 26	2.81
1965		Dec. 28	3.23	Dec. 24	2.78
Feb. 3	4.76	1967		1969	
24	3.69	Jan. 27	2.56	Jan. 28	2.82
Mar. 23	2.93	Feb. 27	3.23	Feb. 25	2.67
Apr. 23	2.88	Mar. 28	2.08	Mar. 28	2.45
May 24	6.95	Apr. 27	2.57	Apr. 28	2.69
June 23	4.72	June 27	2.41	May 27	2.83
July 29	5.46	July 28	2.49	June 26	2.78
Aug. 28	4.15	Aug. 29	3.28	July 30	2.08
Sept. 29	3.68	Sept. 29	3.98	Aug. 27	3.69
Oct. 27	3.64	Oct. 27	2.73	Sept. 23	3.45
Nov. 29	2.82	Nov. 28	2.72	Oct. 29	3.62
Dec. 22	3.40	Dec. 26	2.88	Nov. 26	2.70
1966		1968		Dec. 30	2.74
Jan. 25	3.60	Jan. 26	3.02	1970	
Feb. 24	3.15	Feb. 21	3.35	Jan. 27	3.05
Mar. 23	2.72	Mar. 27	2.47	Feb. 25	2.59
Apr. 26	2.94	Apr. 25	1.97	Mar. 27	1.95
May 25	3.10	May 24	2.70	Apr. 28	2.64
June 23	4.28	June 26	1.73	May 27	2.23
July 26	4.76	July 26	3.55	June 26	3.08
Aug. 24	4.95	Aug. 27	5.18	July 29	3.32
Sept. 23	2.74	Sept. 25	4.49	Aug. 27	2.23
Oct. 26	3.02	Oct. 29	3.20		

HEATH 11

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
May 2	5.15	Dec. 13	5.42	July 1	5.54
14	5.67	1969		14	7.25
29	5.67	Jan. 28	5.97	31	4.48
June 20	3.99	Mar. 6	7.63	Aug. 11	4.57
July 10	6.03	13	7.87	Sept. 11	8.29
25	7.74	27	6.08	25	8.63
Aug. 5	8.75	Apr. 10	3.00	Oct. 9	9.35
20	9.86	24	3.54	24	10.03
Sept. 5	10.76	May 8	5.80	31	10.25
17	11.13	22	5.21	Nov. 6	9.87
26	11.10	June 3	6.09	13	4.11
Oct. 8	11.45	17	5.75	20	3.50
11	11.52	26	4.72	Dec. 4	5.51
22	11.41				

(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1968		1968		1969	
Sept. 17	11.12	Nov. 11	11.41	Mar. 17	8.06
18	11.11	12	11.40	18	8.08
19	11.10	13	11.37	19	8.07
20	11.08	14	11.35	20	8.04
21	11.07	15	11.33	28	6.05
22	11.06	16	11.27	29	5.88
23	11.06	17	11.21	Apr. 11	3.35
24	11.07	18	11.12	12	3.69
25	11.09	19	10.89	13	3.85
26	11.10	20	10.43	14	3.99
27	11.12	21	9.75	15	4.10
28	11.15	22	8.98	16	4.15
29	11.19	23	8.32	17	3.88
30	11.22	24	7.72	18	3.94
Oct. 1	11.24	25	7.17	19	3.38
2	11.29	26	6.61	20	3.55
3	11.31	27	6.09	21	3.82
4	11.33	28	5.84	22	3.57
5	11.36	29	3.73	23	3.04
6	11.40	30	3.70	24	3.41
7	11.43	Dec. 1	4.07	25	3.76
8	11.45	2	4.23	26	4.13
9	11.49	3	4.19	27	4.45
10	11.51	4	3.73	28	4.64
11	11.52	5	3.22	29	4.81
12	11.51	6	3.68	30	4.94
13	11.50	7	4.02	May 1	5.08
14	11.50	8	4.28	2	5.20
15	11.49	9	4.57	3	5.26
16	11.47	10	4.89	4	5.36
17	11.45	11	5.13	5	5.47
18	11.45	12	5.29	6	5.58
19	11.43	13	5.42	7	5.73
20	11.41	14	5.47	8	5.79
21	11.41	15	5.03	9	5.53
22	11.41	16	4.73	10	4.62
23	11.42	17	4.79	11	4.36
24	11.42	18	4.90	12	4.46
25	11.42	19	4.97	13	4.68
26	11.40	20	5.00	14	4.84
27	11.40	21	5.14	15	4.97
28	11.41	22	5.25	16	5.11
29	11.39	23	5.16	17	5.23
30	11.39	24	5.13	18	5.38
31	11.40	1969		19	5.52
Nov. 1	11.40	Mar. 7	7.60	20	5.58
2	11.40	8	7.63	21	5.41
3	11.40	9	7.67	22	5.24
4	11.41	10	7.68	23	5.21
5	11.41	11	7.71	24	5.28
6	11.41	12	7.77	25	5.36
7	11.42	13	7.85	26	5.49
8	11.42	14	7.91	27	5.65
9	11.41	15	7.96	28	5.73
10	11.41	16	8.02	29	5.80

Table 12.--Water levels in observation wells (Continued)

HEATH 11--Continued
(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1969		1969		1969	
May 30	5.88	June 20	5.50	July 29	7.88
31	5.91	21	5.60	30	5.72
June 1	5.97	22	5.58	Aug. 12	4.77
2	6.02	23	5.56	13	5.01
3	6.07	24	5.30	14	5.21
4	6.19	25	4.82	15	5.40
5	6.30	26	4.73	16	5.54
6	6.36	July 15	7.34	17	5.66
7	6.38	16	7.40	18	5.79
8	6.30	17	7.44	19	5.87
9	6.25	18	7.50	20	5.99
10	6.23	19	7.61	21	6.11
11	6.28	20	7.70	22	6.26
12	6.38	21	7.78	23	6.40
13	6.48	22	7.86	24	6.52
14	6.57	23	7.93	25	6.62
15	6.62	24	7.98	26	6.77
16	6.35	25	8.04	27	6.96
17	5.85	26	8.10	28	7.11
18	5.55	27	8.18	29	7.24
19	5.45	28	8.24	30	7.39

HEATH 11--Continued
(Daily mean water levels from recorder graph.)

Date	Water level	Date	Water level	Date	Water level
1969		1969		1969	
Aug. 31	7.52	Oct. 4	9.24	Oct. 25	10.05
Sept. 1	7.64	5	9.30	26	10.07
2	7.77	6	9.32	27	10.09
3	7.91	7	9.33	28	10.14
4	8.00	8	9.33	29	10.18
5	8.16	9	9.35	30	10.21
6	8.24	10	9.37	31	10.24
7	8.33	11	9.41	Nov. 1	10.26
8	8.39	12	9.45	2	10.28
9	8.39	13	9.48	3	10.27
10	8.40	14	9.49	4	10.27
11	8.32	15	9.56	5	10.20
25	8.63	16	9.61	6	9.88
26	8.69	17	9.64	7	8.52
27	8.77	18	9.70	8	4.00
28	8.84	19	9.77	9	3.85
29	8.93	20	9.81	10	3.96
30	9.00	21	9.83	11	4.04
Oct. 1	9.07	22	9.88	12	4.00
2	9.15	23	9.96	13	4.09
3	9.18	24	10.01		

Table 13.--List of basic-data reports for Massachusetts and New Hampshire[1/]

MASSACHUSETTS

*1 Wilmington-Reading Area, by John A. Baker and Edward A. Sammel, 1961, 50 p., 2 figs. Covers an area of about 43 square miles in the upper part of the Ipswich River basin in northeastern Massachusetts.

*2 Lower Ipswich River basin, by Edward A. Sammel and John A. Baker, 1962, 47 p., 2 figs. Covers an area of about 110 square miles in northeastern Massachusetts.

3 Lowell Area, by John A. Baker and Richard G. Petersen, 1962, 28 p., 2 figs. Covers an area of about 115 square miles and includes most of the metropolitan area of the city of Lowell.

*4 Parker and Rowley River basins, by Edward A. Sammel, 1962, 33 p., 2 figs. The rivers drain an area of about 77 square miles in northeastern Massachusetts.

*5 Brockton-Pembroke Area, by Richard G. Petersen, 1962, 46 p., 2 figs. Covers an area of about 112 square miles in the northern part of Plymouth County.

*6 Western Massachusetts, by Richard G. Petersen and Anthony Maevsky, 1962, 31 p., 1 fig. Covers an area of about 2,865 square miles and includes all of Berkshire, Franklin, Hampshire, and Hampden Counties.

*7 Southeastern Massachusetts, by Anthony Maevsky and Janet A. Drake, 1963, 55 p., 2 figs. Covers an area of about 1,930 square miles and includes all of Barnstable, Bristol, Dukes, Nantucket, and Plymouth Counties (exclusive of the Brockton-Pembroke Area).

8 Assabet River basin, by Samuel J. Pollock and William B. Fleck, 1964, 45 p., 1 pl. Covers an area of approximately 177 square miles and includes parts of Middlesex and Worcester Counties.

*9 Housatonic River basin, by Ralph F. Norvitch and Mary E.S. Lamb, 1966, 50 p., 1 pl. Covers an area of about 530 square miles in the upper part of the basin, which is north of the Connecticut-Massachusetts State line.

10 Northern part, Ten Mile and Taunton River basins, by John R. Williams and Richard E. Willey, 1967, 56 p., 1 pl., 1 fig. Covers an area of about 195 square miles within Bristol, Norfolk, and Plymouth Counties.

11 Millers River basin, by Donald R. Wiesnet and William B. Fleck, 1967, 29 p., 1 pl., 1 fig. Covers an area of about 392 square miles within Franklin and Worcester Counties, Massachusetts, and Hillsborough and Cheshire Counties, New Hampshire.

12 Taunton River basin, by John R. Williams and Richard E. Willey, 1970, 102 p., 1 pl., 1 fig. Covers an area of about 528 square miles in Bristol, Norfolk, and Plymouth Counties, Massachusetts.

Table 13.--List of basic-data reports for Massachusetts and New Hampshire (Continued)1/

NEW HAMPSHIRE

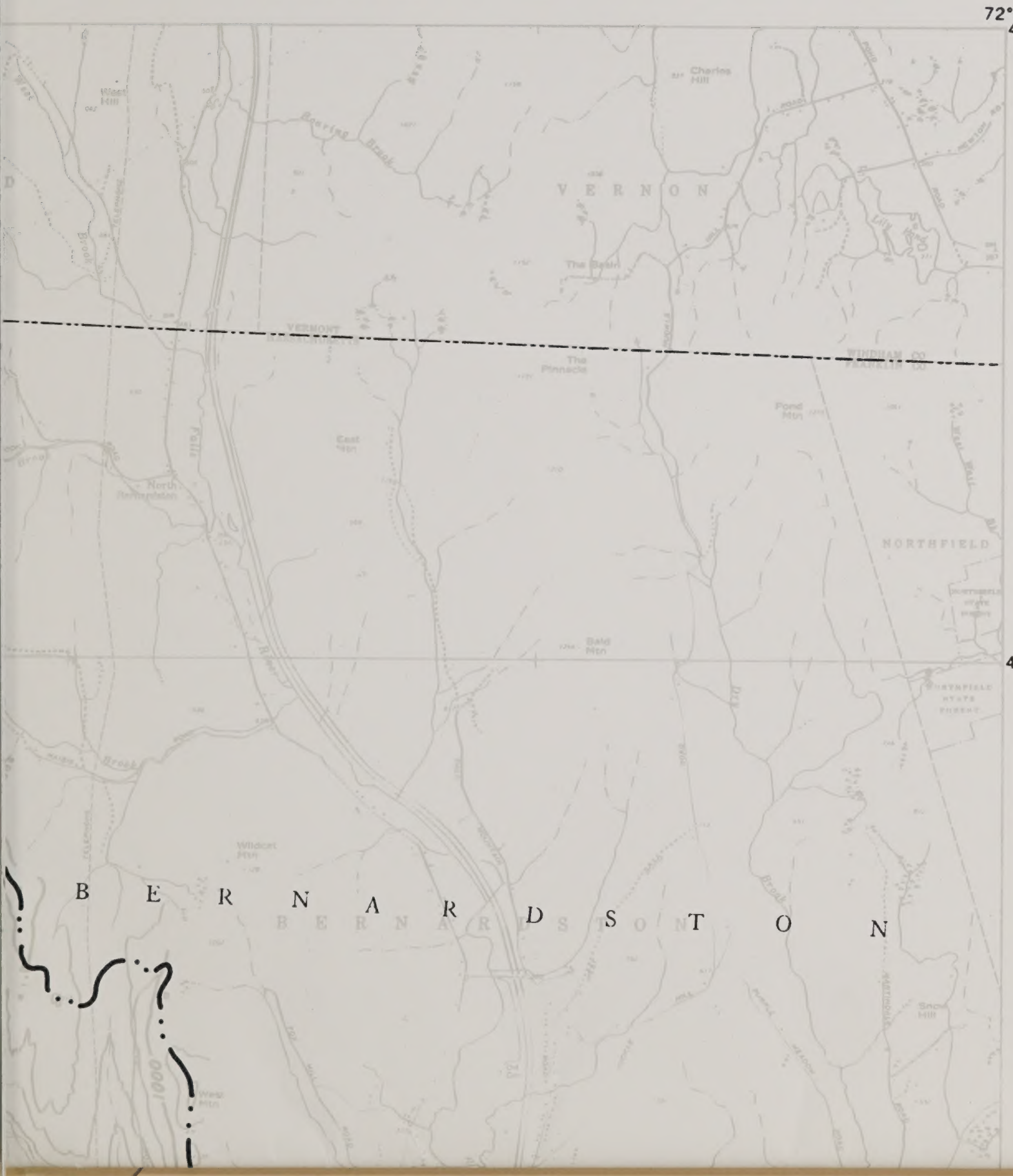
*1 Southeastern Area, by Edward Bradley and Richard G. Petersen, 1962, 53 p., 5 figs. Covers an area of about 390 square miles in parts of Rockingham and Strafford Counties.

2 Lower Merrimack River valley, by James M. Weigle and Richard Kranes, 1966, 44 p., 1 pl. Covers an area of about 396 square miles in central-southern New Hampshire.

3 Ashuelot River basin, by Harold A. Whitcomb, 1973, 25 p., 1 pl. Covers an area of about 420 square miles in southwestern New Hampshire.

1/ These reports are available, free of charge, at the U.S. Geological Survey, 150 Causeway Street, Boston, MA 02114. An asterisk indicates that the report is out of print but can be consulted at the above office and at many public and educational institution libraries.

ETTS HYDROLOGIC-DATA REPORT NO.13
PLATE 1



DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE COMMONWEALTH OF MASSACHUSETTS
WATER RESOURCES COMMISSION

EXPLANATION

HYDROLOGIC-DATA COLLECTION SITES

GROUND-WATER SITES

	Wells	Municipal wells	Observation wells
Penetrated only unconsolidated deposits	○3	●9	✠6
Reached bedrock or refusal	●22	●20	✦30
Penetrated bedrock	●49	● (none)	✦21

PREFIXES

(A) Auger boring, (B) Bridge boring, (R) Roadway boring

SURFACE-WATER STATIONS

▲21 Continuous record of discharge and Miscellaneous suspended sediment
Δ2 Low-flow discharge
▼17 Chemical analyses

PRECIPITATION STATIONS

Ⓒ Chemical analyses

Basin boundary

Base from topographic quadrangles
U.S. Geological Survey

LOCATION OF SEISMIC PROFILES SHOWN IN FIGURE 1 OF REPORT

SCALE 1:48 000

1 0 1 2 3 4 5 MILES
1 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

MAP OF THE DEERFIELD RIVER BASIN, MASSACHUSETTS, SHOWING HYDROLOGIC-DATA COLLECTION SITES

1973